Spatial Variability of Phytoplankton Productivity and Biomass, and of Nutrient Measurements in the Near-Surface Waters of St. Margaret's Bay in 1975

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Fisheries and Marine Service

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June 1978

SPATIAL VARIABILITY OF PHYTOPLANKTON PRODUCTIVITY AND BIOMASS, AND OF NUTRIENT MEASUREMENTS IN THE NEAR-SURFACE WATERS OF ST. MARGARET'S BAY IN 1975

by

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ABSTRACT

Therriault, J.-C., P. Dickie, M. Hodgson and T. Platt. 1978. Spatial variability of phytoplankton productivity and biomass, and of nutrient measurements in the near-surface waters of St. Margaret's Bay in 1975. Fish. Mar. Serv. Data Rep. No. 87: 184 pp.

During 30 different cruises, water samples were collected from 5-m depth at 6 closely spaced stations in St. Margaret's Bay. Well replicate measurements of phytoplankton productivity and biomass, and of nutrients and salinity were performed on each sampling occasion. The observations are presented in this report. The data suggest the existence of considerable spatial variability of the various environmental factors in the near-surface waters of St. Margaret's Bay.

RÉSUMÉ

Therriault, J.-C., P. Dickie, M. Hodgson and T. Platt. 1978. Spatial variability of phytoplankton productivity and biomass, and of nutrient measurements in the near-surface waters of St. Margaret's Bay in 1975. Fish. Mar. Serv. Data Rep. No. 87: 184 pp.

À l'occasion de 30 croisières différentes dans la Baie Ste-Marguerite, Nouvelle-Écosse, des prélèvements d'eau ont été effectués à 5 mètres à six stations voisines. Six répliques pour la détermination de la production et de la biomasse du phytoplancton, des sels nutritifs et de la salinité

furent recueillies à partir de chaque prélèvement d'eau. Les résultats obtenus sont présentés dans ce rapport. Ces données suggèrent l'existence d'une variabilité spatiale souvent considérable des divers facteurs de l'environnement, dans les eaux de surface de la Baie Ste-Marguerite.

INTRODUCTION

The purpose of this study was to determine the intensity of the spatial variability (two-dimensional, horizontal) of phytoplankton biomasses and productivity, and of salinity and nutrient measurements (Phosphate, Nitrate, Silicate and Ammonia) in the near-surface waters of St. Margaret's Bay, Nova Scotia (Fig. 1). Because uniformity was a major concern in this study for the location of the sampling stations, a rectangular area of ca. 12 km^2 was first located in the deeper western side of the Bay where bottom topography is most regular (Fig. 1), then this sampling area was divided into 60 smaller areas of ca. 0.2 km^2, and six of these areas were finally chosen at random (among the 60) to be used as sampling stations for the duration of the experiment. The exact position of these six stations is the following:

Station	Latitude	Longitude
1	44° 34' 30"	63° 59' 42"
2	44° 33' 52"	64° 00' 18"
3	44° 32' 54"	63° 59' 39"
4	44° 33' 45"	63° 59' 15"
5	44° 34' 21"	64° 00' 56"
6	44° 34' 52"	64° 01' 33"

SAMPLING AND ANALYTICAL METHODS

On each sampling day, all six stations were visited from 0830 to 1030 h., local time. At each station, 30 liters of water were collected from 5-m depth using a large Niskin sampler. This water was filtered immediately through 160 μ nitex and stored in a large carboy covered with an opaque plastic bag to prevent damage to the phytoplankton cells from strong surface radiation. Immediately after collection, the 30-liter carboy of water was shaken thoroughly and six replicate 100 ml samples for ATP determination were drawn off and filtered immediately through GF/C glass fibre filters. Within 15 seconds the filter was plunged for 5 minutes in a Vacutainer tube containing 3 ml of boiling TRIS buffer, before being frozen in dry ice.

When samples had been collected from all six stations, each carboy was shaken thoroughly and six replicate samples were drawn from each carboy for the following measurements: productivity, chlorophyll, particulate carbon and nitrogen, phosphate, nitrate, silicate, ammonia and salinity. The chlorophyll and CHN (carbon and nitrogen) subsamples were filtered through 47 mm GF/C glass filters and precombusted 0.8 μ silver filters, respectively, and stored frozen. The filtrate collected from the CHN filtration was discharged into 120 ml plastic bottles and served as sample for nutrient analyses. These samples were frozen solid in less than 15 minutes by immersion in a bucket containing methanol and dry ice. The treatments of the samples were the following:

Productivity

For each station 6 replicate light and 4 replicate dark bottles (125 ml) were filled for primary productivity determinations using the C^{14}-uptake method essentially as given in Strickland and Parsons (1972). Five microcuries of $NaH^{14}CO_3$ were added to each bottle; the radioactive tracer solution was filtered through HA Millipore (0.45 μ) immediately before use. All 60 C^{14} bottles were incubated in situ (5-m depth) on two adjacent horizontal frames attached to a permanent buoy anchored at station 6. The incubation lasted 4 hours, covering the period from 1100 to 1500 h, local time. When the incubation was completed, the two frames were retrieved and beginning with the clear bottles, the samples were picked up at random and filtered immediately; formalin was not used to arrest photosynthesis. The membrane filters (HA millipore, 2.5 cm diameter, pore size 0.45 μ) were dried in a desiccator and exposed to HCl fumes for 15 minutes prior to scintillation counting, using the channels-ratio method. The scintillation fluid was a 50:50 mixture of toluene and ethylene glycol monoethyl ether containing 4 g $liter^{-1}$ of PPO and 50 mg $liter^{-1}$ of POPOP.

Pigments

Chlorophyll a and phaeopigments were measured by the fluorometric technique of Yentsch and Menzel (1963), as modified by Holm-Hansen et al., (1965).

Particulate carbon and nitrogen

Carbon and nitrogen contents of the particulate matter on the silver filters were determined using a Hewlett-Packard model 185B CHN-analyser.

ATP

ATP was analyzed by the method of Holm-Hansen and Booth (1966).

Nutrients

Analyses of the phosphate, nitrate and silicate were performed following essentially the methods described in Strickland and Parsons (1972).

Ammonia

The phenolhypochlorite method of Solorzano (1969) was used for ammonia determination.

Salinity

Salinity was determined using an Autolab Salinometer.

As an index of the precision of the measurements, the mean (of 180 cases) coefficient of variation (standard deviation between replicates divided by station mean and expressed as percentage)

have been calculated for each factor and is given below:

Factor	CV (%)
Production	9.2
Chlorophyll *a*	5.4
Phaeopigments	16.9
ATP	13.5
Carbon	13.7
Nitrogen	13.6
Phosphate	7.6
Nitrate	27.8
Silicate	13.1
Ammonia	43.4
Salinity	0.01

With the exception of nitrate and ammonia where concentrations were often below the lower limit of detection, the mean coefficient of variation for each factor was not greater than the preliminary estimates of the laboratory precision made at the beginning of the experiment.

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REFERENCES

Holm-Hansen, O. and C.R. Booth. 1966. The measurement of Adenosine Triphosphate in the ocean and its ecological significance. Limnol. Oceanogr., 11: 510-519.

Holm-Hansen,O., C.J. Lorenzen, R.N. Holmes and J.D.H. Strickland 1965 Fluorometric determination of chlorophyll. J. Cons. Int. Explor. Mer 30: 3-15.

Solorzano, L. 1969. Determination of ammonia in natural water by the phenolhypochloride method. Limnol. Oceanogr., 14: 799-801.

Strickland, J.D.H. and T.R. Parsons, 1972. A practical handbook of seawater analysis. Bull. Fish. Res. Bd. Canada No. 167, 311 pp.

Yentsch, C.S. and D.W. Mensel. 1963. A method for the determination of phytoplankton chlorophyll and phaeophytin by fluorescence. Deep-Sea Res. 10: 221-231.

TABLES OF RESULTS

Following are the tables of serial data collected from 5-m depth at the six sampling stations in St. Margaret's Bay in 1975.

TABLES OF RESULTS

Following are the tables of serial data collected from 5-m depth at the six sampling stations in St. Margaret's Bay in 1975.

DATE: 14/01/75
STATION: 1
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	0.47	2.47	0.35	0.40
2-	0.49	3.39	0.18	0.30
3-	0.46	3.34	0.40	0.31
4-	0.43	2.70	0.06	0.31
5-	0.49	2.69	0.43	0.46
6-	0.46	-	-	0.38
MEAN	0.47	2.92	0.28	0.36
S.D.	0.02	0.42	0.16	0.06

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	125.6	17.9	0.81	4.22
2-	100.8	17.6	0.80	4.28
3-	95.8	18.1	0.82	4.32
4-	161.4	22.1	0.84	4.32
5-	124.7	17.9	0.74	4.28
6-	159.5	18.4	0.83	4.24
MEAN	128.0	18.7	0.81	4.28
S.D.	27.9	1.7	0.04	0.04

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	7.41	0.71	30.412
2-	7.12	0.83	30.414
3-	7.07	0.83	30.423
4-	8.05	0.79	30.413
5-	6.53	-	30.413
6-	7.28	-	30.416
MEAN	7.24	0.79	30.415
S.D.	0.50	0.57	0.004

DATE: 14/01/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.42	2.44	0.71	0.43
	2-	0.44	3.66	0.79	0.20
	3-	0.50	2.19	0.43	0.39
	4-	0.55	2.66	0.57	0.50
	5-	0.46	2.88	0.68	0.34
	6-	0.46	2.28	0.60	0.23
	MEAN	0.47	2.69	0.63	0.33
	S.D.	0.05	0.54	0.13	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	82.7	13.0	0.72	4.28
	2-	155.1	18.9	0.71	4.28
	3-	95.7	16.0	0.75	4.20
	4-	98.3	15.7	0.72	4.28
	5-	129.7	17.9	0.75	4.28
	6-	-	-	0.72	-
	MEAN	112.3	16.3	0.73	4.26
	S.D.	29.5	2.3	0.02	0.04

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	6.19	0.64	30.479
	2-	6.61	0.45	30.479
	3-	5.97	0.75	30.478
	4-	6.67	0.69	30.482
	5-	6.88	0.83	30.488
	6-	7.12	-	30.484
	MEAN	6.57	0.67	30.482
	S.D.	0.43	0.14	0.004

DATE: 14/01/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.63	3.79	0.54	0.34
	2-	0.56	3.57	0.94	0.38
	3-	0.64	3.68	0.18	0.25
	4-	0.63	4.33	0.31	0.33
	5-	0.62	4.68	0.89	0.20
	6-	0.61	3.82	0.60	0.18
	MEAN	0.62	3.98	0.58	0.28
	S.D.	0.03	0.43	0.30	0.08

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	143.3	20.8	0.63	4.42
	2-	132.5	18.6	0.63	4.49
	3-	114.1	16.0	0.64	4.16
	4-	111.6	16.0	0.62	4.46
	5-	111.3	17.9	0.65	3.60
	6-	161.0	18.1	-	4.36
	MEAN	129.0	17.9	0.63	4.25
	S.D.	20.4	1.8	0.01	0.34

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	7.12	0.15	30.524
	2-	6.61	0.17	30.519
	3-	6.93	0.24	30.532
	4-	6.80	0.17	30.521
	5-	6.61	0.45	30.521
	6-	6.16	0.34	30.523
	MEAN	6.71	0.25	30.523
	S.D.	0.33	0.12	0.005

DATE: 14/01/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.53	3.66	1.08	0.30
	2-	0.59	4.06	0.86	0.24
	3-	0.65	3.79	0.89	0.33
	4-	0.67	3.36	0.85	0.23
	5-	0.57	4.14	0.70	0.30
	6-	0.70	4.10	0.70	0.31
	MEAN	0.62	3.25	0.85	0.28
	S.D.	0.07	0.31	0.14	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	131.1	19.2	0.65	4.46
	2-	144.2	19.7	0.67	3.54
	3-	105.0	16.8	0.72	2.18
	4-	106.5	15.7	0.66	4.40
	5-	99.4	15.0	0.70	4.44
	6-	134.9	13.6	0.59	-
	MEAN	122.9	16.7	0.67	3.54
	S.D.	19.6	2.4	0.05	1.10

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	5.73	0.56	30.590
	2-	5.87	0.34	30.589
	3-	6.83	0.51	30.589
	4-	6.51	0.36	30.589
	5-	6.51	0.83	30.591
	6-	7.09	-	30.589
	MEAN	6.42	0.52	30.590
	S.D.	0.53	0.20	0.008

DATE: 14/01/75
STATION: 5
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	0.49	3.66	0.97	0.39
2-	0.53	3.28	1.28	0.35
3-	0.51	4.15	0.24	0.26
4-	0.52	4.04	0.12	0.39
5-	0.50	4.19	0.44	0.31
6-	0.52	4.18	0.36	0.43
MEAN	0.51	3.92	0.57	0.35
S.D.	0.01	0.37	0.46	0.06

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	126.0	18.4	0.67	2.61
2-	92.2	14.2	0.64	3.35
3-	138.1	19.2	0.59	4.16
4-	97.3	16.8	0.50	2.28
5-	96.6	15.0	0.65	4.22
6-	160.7	16.3	0.50	4.22
MEAN	118.5	16.7	0.59	3.47
S.D.	27.7	1.9	0.08	0.87

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	6.93	0.13	30.438
2-	6.75	0.26	30.424
3-	7.15	0.26	30.450
4-	6.61	0.43	30.425
5-	6.13	0.49	30.427
6-	5.47	-	30.425
MEAN	6.51	0.31	30.432
S.D.	0.61	0.15	0.010

DATE: 14/01/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.50	3.81	0.44	-
	2-	0.57	4.10	0.18	-
	3-	0.50	4.26	0.20	-
	4-	0.52	4.39	0.40	-
	5-	0.56	4.59	0.34	-
	6-	0.56	4.56	0.07	-
	MEAN	0.54	4.29	0.27	-
	S.D.	0.03	0.30	0.14	-

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	134.8	16.8	0.66	3.46
	2-	124.7	18.9	0.54	4.20
	3-	170.2	18.4	0.58	3.42
	4-	171.3	20.0	0.52	2.65
	5-	156.2	15.0	0.70	2.26
	6-	135.9	17.1	0.60	-
	MEAN	148.9	17.7	0.60	3.20
	S.D.	19.8	1.8	0.07	0.76

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	5.68	0.45	30.406
	2-	6.83	0.51	30.394
	3-	7.04	0.75	30.390
	4-	7.36	0.62	30.390
	5-	6.21	0.64	30.395
	6-	7.06	-	30.394
	MEAN	6.70	0.59	30.395
	S.D.	0.63	0.12	0.006

DATE: 29/01/75
STATION: 1
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	0.42	0.29	0.11	0.20
2-	0.46	0.25	0.08	0.39
3-	0.47	0.25	0.07	0.32
4-	0.49	0.32	0.10	0.23
5-	0.46	0.24	0.10	0.25
6-	0.46	0.24	0.06	0.32
MEAN	0.46	0.27	0.09	0.28
S.D.	0.02	0.03	0.02	0.07

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	117.6	17.1	0.86	3.95
2-	150.1	21.3	0.88	4.03
3-	122.2	18.6	0.86	3.93
4-	132.4	18.6	0.86	3.97
5-	139.0	17.9	0.88	3.97
6-	125.9	16.5	0.87	3.95
MEAN	131.2	18.3	0.87	3.97
S.D.	12.0	1.7	0.01	0.03

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES 1-	8.72	0.45	30.172
2-	8.37	0.41	30.177
3-	8.59	0.43	30.176
4-	8.93	0.51	30.177
5-	7.36	0.58	30.171
6-	7.84	0.64	30.176
MEAN	7.97	0.50	30.175
S.D.	0.69	0.09	0.003

DATE: 29/01/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.66	0.25	0.06	0.32
	2-	0.56	0.40	0.05	0.27
	3-	0.58	0.28	0.13	0.20
	4-	0.57	0.29	0.10	0.33
	5-	0.63	0.35	0.06	0.29
	6-	0.58	0.24	0.05	0.29
	MEAN	0.60	0.30	0.08	0.28
	S.D.	0.04	0.06	0.03	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	129.0	18.6	0.86	4.07
	2-	117.6	15.2	0.84	3.93
	3-	277.7	27.3	0.85	4.03
	4-	209.8	24.7	0.86	3.66
	5-	164.4	18.4	0.84	4.03
	6-	122.2	15.5	0.85	3.93
	MEAN	170.1	20.0	0.85	3.94
	S.D.	63.1	5.0	0.01	0.15

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	7.23	0.64	30.214
	2-	7.79	0.39	30.211
	3-	8.08	0.43	30.214
	4-	8.85	0.64	30.216
	5-	8.91	0.60	30.214
	6-	8.91	0.69	30.213
	MEAN	8.29	0.57	30.214
	S.D.	0.71	0.12	0.002

DATE: 29/01/75
STATION: 3
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	0.72	0.41	0.00	0.56
2-	0.65	0.45	0.00	0.56
3-	0.66	0.35	0.07	0.64
4-	0.65	0.52	0.04	0.44
5-	0.65	0.45	0.02	0.50
6-	0.77	0.53	0.00	-
MEAN	0.68	0.45	0.02	0.54
S.D.	0.05	0.07	0.03	0.08

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	129.0	17.1	0.72	4.05
2-	102.7	16.0	0.76	3.48
3-	114.1	16.8	0.77	3.89
4-	126.9	18.6	0.70	3.48
5-	117.8	17.3	0.78	3.99
6-	125.0	19.2	0.76	3.97
MEAN	119.3	17.5	0.75	3.81
S.D.	9.9	1.2	0.03	0.26

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	7.81	0.43	30.272
2-	8.56	0.34	30.273
3-	8.85	0.34	30.279
4-	8.80	0.32	30.272
5-	8.11	0.41	30.275
6-	8.96	0.30	30.276
MEAN	8.52	0.36	30.275
S.D.	0.46	0.05	0.003

DATE: 29/01/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.55	0.29	0.11	0.32
	2-	0.67	0.28	0.08	0.24
	3-	0.52	0.19	0.07	0.27
	4-	0.65	0.22	0.06	0.30
	5-	0.57	0.28	0.07	0.27
	6-	0.55	0.21	0.09	0.25
	MEAN	0.59	0.25	0.08	0.28
	S.D.	0.06	0.04	0.02	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	116.5	16.0	0.80	2.57
	2-	117.1	16.3	0.80	3.56
	3-	123.1	16.0	0.80	3.75
	4-	118.5	17.6	0.81	2.67
	5-	102.6	15.0	0.79	3.85
	6-	111.1	16.0	0.84	3.25
	MEAN	114.9	16.2	0.81	3.28
	S.D.	7.2	0.8	0.02	0.55

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	9.04	0.60	30.112
	2-	9.09	0.41	30.115
	3-	8.96	0.41	30.120
	4-	8.00	0.45	30.115
	5-	8.75	0.45	30.118
	6-	8.21	-	30.118
	MEAN	8.68	0.46	30.116
	S.D.	0.46	0.08	0.003

DATE: 29/01/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.77	0.37	0.04	0.59
	2-	0.69	0.46	0.03	0.46
	3-	0.68	0.36	0.04	0.50
	4-	0.70	0.45	0.00	0.37
	5-	0.81	0.40	0.04	0.53
	6-	-	-	-	0.46
	MEAN	0.73	0.41	0.03	0.48
	S.D.	0.06	0.05	0.02	0.07

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	121.8	16.5	0.75	3.15
	2-	110.7	15.0	0.70	3.72
	3-	104.2	15.2	0.78	3.50
	4-	124.6	17.0	0.82	3.95
	5-	86.4	14.3	0.78	3.17
	6-	92.7	13.3	0.78	4.10
	MEAN	106.4	15.2	0.77	3.60
	S.D.	15.8	1.4	0.04	0.40

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	7.89	0.21	30.299
	2-	8.45	0.26	30.302
	3-	8.77	0.26	30.308
	4-	8.03	0.26	30.304
	5-	7.87	0.24	30.304
	6-	8.51	0.28	30.311
	MEAN	8.25	0.25	30.305
	S.D.	0.37	0.02	0.004

DATE: 29/01/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.79	0.20	0.00	0.66
	2-	0.85	0.16	0.00	0.56
	3-	0.78	0.20	0.00	0.68
	4-	0.74	0.20	0.00	0.59
	5-	0.67	0.17	0.00	0.55
	6-	0.69	0.17	0.01	-
	MEAN	0.75	0.18	0.00	0.61
	S.D.	0.07	0.02	-	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	141.1	15.2	0.80	3.68
	2-	126.0	17.3	0.88	4.16
	3-	116.0	17.1	0.89	4.12
	4-	130.6	14.7	0.88	4.12
	5-	115.0	17.1	0.64	3.66
	6-	125.0	16.3	0.85	4.12
	MEAN	125.6	16.3	0.82	3.98
	S.D.	9.7	1.1	0.10	0.24

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	7.84	0.30	30.315
	2-	8.03	0.64	30.315
	3-	7.79	0.39	30.314
	4-	7.55	0.43	30.316
	5-	7.33	0.30	30.316
	6-	8.35	0.51	30.323
	MEAN	7.82	0.43	30.317
	S.D.	0.36	0.13	0.003

DATE: 11/02/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.52	0.34	0.10	0.21
	2-	0.49	0.35	0.12	0.28
	3-	0.68	0.39	0.11	0.29
	4-	0.51	0.34	0.13	0.29
	5-	0.51	0.40	0.15	0.29
	6-	-	0.39	0.12	-
	MEAN	0.54	0.37	0.12	0.27
	S.D.	0.08	0.03	0.02	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	258.6	27.9	0.73	4.77
	2-	124.6	17.9	0.74	4.86
	3-	116.1	18.9	0.75	4.71
	4-	123.6	18.9	0.68	4.82
	5-	118.9	17.9	0.76	4.77
	6-	109.7	17.1	0.73	4.90
	MEAN	141.9	19.8	0.73	4.81
	S.D.	57.4	4.0	0.03	0.07

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES	1-	9.25	0.39	30.422
	2-	8.29	0.21	30.415
	3-	7.97	0.32	30.417
	4-	7.87	0.47	30.416
	5-	8.61	0.39	30.422
	6-	-	0.34	30.415
	MEAN	8.40	0.35	30.418
	S.D.	0.56	0.09	0.003

DATE: 11/02/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.57	0.46	0.13	0.16
	2-	0.59	0.47	0.11	0.21
	3-	0.58	0.45	0.11	0.21
	4-	0.54	0.45	0.11	0.19
	5-	0.59	0.34	0.11	0.28
	6-	0.60	0.44	0.16	0.29
	MEAN	0.58	0.44	0.12	0.22
	S.D.	0.02	0.05	0.02	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	0.69	4.94
	2-	-	-	0.78	4.92
	3-	-	-	0.78	4.94
	4-	-	-	0.70	4.94
	5-	-	-	0.79	4.96
	6-	-	-	0.74	-
	MEAN	-	-	0.75	4.94
	S.D.	-	-	0.04	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	8.24	0.21	30.438
	2-	8.37	0.21	30.435
	3-	8.88	0.32	30.434
	4-	8.29	0.26	30.440
	5-	7.92	0.39	30.436
	6-	-	0.34	30.434
	MEAN	8.34	0.29	30.436
	S.D.	0.35	0.07	0.002

DATE: 11/02/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.63	0.48	0.16	0.25
	2-	0.69	0.45	0.11	0.29
	3-	0.65	0.50	0.10	0.27
	4-	0.75	0.52	0.08	0.33
	5-	0.60	0.47	0.11	0.24
	6-	0.68	0.53	0.15	-
	MEAN	0.67	0.49	0.12	0.27
	S.D.	0.05	0.03	0.03	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	165.3	23.0	0.65	4.94
	2-	118.8	23.7	0.72	5.00
	3-	180.8	26.3	0.71	5.06
	4-	-	-	0.77	5.02
	5-	-	-	0.76	5.06
	6-	-	-	0.74	4.94
	MEAN	154.9	24.3	0.73	5.00
	S.D.	32.3	1.7	0.04	0.05

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	8.19	0.45	30.490
	2-	8.83	0.49	30.489
	3-	8.77	0.56	30.489
	4-	8.88	0.47	30.487
	5-	8.45	0.34	30.495
	6-	-	0.43	30.491
	MEAN	8.62	0.46	30.490
	S.D.	0.30	0.07	0.003

DATE: 11/02/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.77	0.61	0.07	0.35
	2-	0.73	0.50	0.08	0.46
	3-	0.75	0.62	0.11	0.42
	4-	0.83	0.66	0.11	0.39
	5-	0.78	0.57	0.08	0.38
	6-	0.65	0.56	0.08	0.33
	MEAN	0.75	0.59	0.09	0.39
	S.D.	0.06	0.06	0.02	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	229.1	29.7	0.70	5.02
	2-	192.7	25.2	0.74	4.94
	3-	258.3	29.5	0.73	4.80
	4-	212.8	28.0	0.74	4.94
	5-	169.0	26.9	0.72	4.84
	6-	130.8	22.1	-	-
	MEAN	198.8	26.9	0.73	4.91
	S.D.	45.2	2.9	0.02	0.09

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	8.00	0.51	30.468
	2-	8.59	0.56	30.465
	3-	7.92	0.34	30.465
	4-	8.24	0.43	30.461
	5-	8.05	0.45	30.465
	6-	8.35	0.58	30.461
	MEAN	8.19	0.48	30.464
	S.D.	0.25	0.09	0.003

DATE: 11/02/75
STATION: 5
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	0.54	0.53	0.11	0.25
2-	0.54	0.48	0.10	0.29
3-	0.57	0.46	0.09	0.33
4-	0.61	0.48	0.10	0.27
5-	0.55	0.47	0.10	0.36
6-	0.54	0.51	0.11	0.33
MEAN	0.56	0.49	0.10	0.30
S.D.	0.03	0.03	0.01	0.04

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	195.1	20.4	0.75	4.80
2-	105.0	16.0	0.72	4.94
3-	149.6	16.8	0.74	4.86
4-	99.4	16.0	0.75	4.73
5-	163.6	17.1	0.69	4.86
6-	120.8	17.6	0.73	4.84
MEAN	138.3	17.3	0.73	4.84
S.D.	36.1	1.6	0.02	0.07

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES 1-	8.51	0.30	30.420
2-	8.45	0.24	30.423
3-	8.35	0.19	30.426
4-	8.24	0.19	30.425
5-	8.11	0.24	30.424
6-	8.03	0.21	30.426
MEAN	8.28	0.23	30.424
S.D.	0.19	0.04	0.002

DATE: 11/02/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.54	0.33	0.10	0.33
	2-	0.56	0.33	0.16	0.33
	3-	0.47	0.37	0.15	0.27
	4-	0.51	0.36	0.16	0.33
	5-	0.53	0.39	0.11	0.27
	6-	-	0.45	0.04	0.32
	MEAN	0.52	0.37	0.12	0.31
	S.D.	0.03	0.05	0.05	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	117.0	19.2	0.76	4.90
	2-	146.0	19.2	0.74	4.92
	3-	183.7	26.5	0.72	4.82
	4-	108.2	17.3	0.74	4.88
	5-	138.1	20.8	0.81	4.92
	6-	101.6	18.9	0.78	-
	MEAN	132.4	20.3	0.76	4.89
	S.D.	30.4	3.2	0.03	0.04

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	8.16	0.43	30.430
	2-	8.75	0.49	30.431
	3-	8.77	0.39	30.433
	4-	8.48	0.60	30.433
	5-	8.85	0.56	30.432
	6-	-	0.60	30.432
	MEAN	8.60	0.51	30.432
	S.D.	0.28	0.09	0.002

DATE: 18/02/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.48	0.18	0.00	0.73
	2-	0.57	0.14	0.01	0.67
	3-	0.57	0.16	0.00	0.80
	4-	0.60	0.13	0.01	0.45
	5-	0.53	0.16	0.00	0.31
	6-	-	0.14	0.01	-
	MEAN	0.55	0.15	0.01	0.59
	S.D.	0.05	0.02	0.01	0.20

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	130.5	22.1	0.66	3.92
	2-	107.9	21.5	0.73	3.98
	3-	108.6	21.3	0.64	5.31
	4-	120.7	23.8	0.71	5.05
	5-	120.4	22.7	0.65	3.68
	6-	123.4	22.4	0.67	4.04
	MEAN	118.6	22.3	0.68	4.33
	S.D.	8.8	0.9	0.04	0.67

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	8.32	0.11	30.379
	2-	8.91	0.21	30.379
	3-	8.80	0.19	30.378
	4-	9.09	0.15	30.380
	5-	9.23	-	30.381
	6-	9.09	-	30.379
	MEAN	8.91	0.17	30.379
	S.D.	0.33	0.04	0.001

DATE: 18/02/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.59	0.14	0.00	0.39
	2-	0.57	0.13	0.00	0.48
	3-	0.61	0.13	0.01	0.43
	4-	0.53	0.12	0.00	0.39
	5-	0.58	0.13	0.00	0.45
	6-	0.55	0.17	0.00	0.31
	MEAN	0.57	0.14	0.00	0.41
	S.D.	0.03	0.02	0.00	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	158.9	26.9	0.65	3.98
	2-	170.0	30.3	0.66	4.23
	3-	127.2	38.2	0.68	4.21
	4-	115.0	20.7	0.70	4.21
	5-	126.8	21.5	0.68	4.51
	6-	-	24.1	0.70	3.98
	MEAN	163.3	27.0	0.68	4.19
	S.D.	61.8	6.6	0.02	0.20

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	9.04	0.19	30.401
	2-	8.88	0.11	30.400
	3-	9.07	0.13	30.400
	4-	8.24	0.24	30.400
	5-	8.96	0.26	30.404
	6-	8.61	0.28	30.403
	MEAN	8.80	0.20	30.401
	S.D.	0.32	0.07	0.002

DATE: 18/02/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.57	0.15	0.01	0.56
	2-	0.67	0.15	0.00	0.43
	3-	0.59	0.17	0.00	0.50
	4-	0.67	0.14	0.00	0.45
	5-	0.65	0.14	0.00	0.37
	6-	0.64	0.12	0.01	0.43
	MEAN	0.63	0.15	0.00	0.46
	S.D.	0.04	0.02	0.01	0.07

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	111.3	21.5	0.68	3.16
	2-	169.6	30.3	0.67	3.18
	3-	81.2	18.6	0.72	3.76
	4-	102.2	21.0	0.71	3.92
	5-	140.5	21.0	0.72	3.18
	6-	90.4	20.1	0.67	3.41
	MEAN	115.9	22.1	0.70	3.44
	S.D.	33.3	4.2	0.02	0.33

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	8.96	0.13	30.438
	2-	8.88	0.02	30.439
	3-	8.96	0.09	30.440
	4-	8.43	0.11	30.440
	5-	8.40	0.13	30.437
	6-			30.438
	MEAN	8.73	0.10	30.439
	S.D.	0.29	0.05	0.001

DATE: 18/02/75
STATION: 4
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	0.57	0.15	0.01	0.44
2-	0.62	0.14	0.00	0.43
3-	0.60	0.19	0.00	0.41
4-	0.61	0.15	0.00	0.11
5-	0.61	0.12	0.00	0.19
6-	0.61	0.14	0.02	0.26
MEAN	0.60	0.15	0.01	0.31
S.D.	0.02	0.02	0.01	0.14

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	137.7	22.4	0.68	3.37
2-	140.5	23.8	0.65	3.90
3-	150.5	28.0	0.71	3.35
4-	131.4	26.9	0.69	4.15
5-	135.0	23.0	0.70	4.46
6-	137.7	26.6	0.72	3.37
MEAN	138.8	25.1	0.69	3.77
S.D.	6.5	2.3	0.03	0.48

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	9.12	0.28	30.419
2-	8.99	0.26	30.416
3-	8.43	0.34	30.419
4-	8.61	0.28	30.417
5-	8.85	0.26	30.416
6-	8.99	-	30.416
MEAN	8.83	0.28	30.417
S.D.	0.26	0.03	0.002

DATE: 18/02/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.58	0.17	0.00	0.56
	2-	0.62	0.17	0.00	0.44
	3-	0.59	0.17	0.00	0.36
	4-	0.61	0.19	0.00	0.51
	5-	0.64	0.20	0.00	0.41
	6-	0.57	0.21	0.00	0.31
	MEAN	0.60	0.19	0.00	0.43
	S.D.	0.03	0.02	0.00	0.09

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	117.7	23.5	0.68	4.16
	2-	117.7	23.2	0.68	4.03
	3-	97.9	21.8	0.65	4.36
	4-	180.6	27.2	0.66	3.52
	5-	147.1	25.2	0.67	3.61
	6-	92.2	21.3	0.65	4.32
	MEAN	125.5	23.7	0.67	4.00
	S.D.	35.2	2.2	0.01	0.36

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	8.80	0.06	30.421
	2-	8.75	0.02	30.423
	3-	8.83	0.09	30.422
	4-	8.88	0.13	30.421
	5-	8.77	0.24	30.422
	6-	8.27	-	30.419
	MEAN	8.72	0.11	30.421
	S.D.	0.22	0.08	0.001

DATE: 18/02/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.59	0.16	0.00	0.31
	2-	0.65	0.17	0.00	0.29
	3-	0.59	0.14	0.01	0.34
	4-	0.66	0.15	0.01	0.23
	5-	0.61	0.17	0.00	0.29
	6-	0.60	0.16	0.00	0.39
	MEAN	0.62	0.16	0.00	0.30
	S.D.	0.03	0.01	0.01	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	90.6	21.0	0.62	4.36
	2-	110.4	21.8	0.66	4.48
	3-	119.1	22.4	0.66	4.99
	4-	181.3	33.4	0.62	3.44
	5-	116.3	22.4	0.69	4.48
	6-	174.0	32.9	0.67	3.32
	MEAN	132.0	26.7	0.65	4.18
	S.D.	36.9	5.8	0.03	0.66

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	8.67	0.06	30.422
	2-	8.85	0.11	30.427
	3-	8.83	0.06	30.425
	4-	9.01	0.02	30.428
	5-	9.20	0.11	30.229
	6-	-	0.15	30.413
	MEAN	8.91	0.09	30.424
	S.D.	0.20	0.05	0.006

DATE: 26/02/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.46	0.29	0.00	-
	2-	2.53	0.37	0.00	-
	3-	2.73	0.39	0.00	-
	4-	2.83	0.38	0.00	-
	5-	2.68	0.36	0.00	-
	6-	-	0.38	0.00	-
	MEAN	2.65	0.36	0.00	-
	S.D.	0.15	0.04	-	-

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	148.2	27.8	0.69	-
	2-	167.6	29.7	0.69	-
	3-	87.2	32.9	0.72	-
	4-	130.2	26.6	0.68	-
	5-	138.5	28.6	0.64	-
	6-	145.4	27.5	0.65	-
	MEAN	136.2	28.9	0.68	-
	S.D.	27.0	2.2	0.03	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	7.81	0.45	30.460
	2-	6.69	0.47	30.457
	3-	7.28	0.34	30.456
	4-	8.75	0.21	30.454
	5-	7.73	0.30	30.456
	6-	9.47	0.30	30.456
	MEAN	7.96	0.35	30.457
	S.D.	1.01	0.10	0.002

DATE: 26/02/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.23	0.27	0.03	-
	2-	2.40	0.33	0.00	-
	3-	2.10	0.34	0.00	-
	4-	2.33	0.25	0.01	-
	5-	2.12	0.29	0.01	-
	6-	2.13	-	-	-
	MEAN	2.22	0.30	0.01	-
	S.D.	0.12	0.04	0.01	-

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	135.4	26.9	0.73	-
	2-	199.3	26.6	0.74	-
	3-	107.1	23.8	0.68	-
	4-	137.3	28.6	0.74	-
	5-	129.9	28.9	0.74	-
	6-	140.9	26.9	0.75	-
	MEAN	141.7	27.0	0.73	-
	S.D.	30.7	1.8	0.03	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	7.63	0.26	30.553
	2-	7.84	0.26	30.554
	3-	8.43	0.28	30.553
	4-	8.27	0.21	30.553
	5-	8.24	0.11	30.554
	6-	7.76	0.32	30.554
	MEAN	8.03	0.24	30.554
	S.D.	0.33	0.07	0.001

DATE: 26/02/75
STATION: 3
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	2.00	0.26	0.00	-
2-	1.96	0.22	0.00	-
3-	1.90	0.34	0.00	-
4-	2.01	0.27	0.01	-
5-	2.16	0.26	0.00	-
6-	-	0.23	0.01	-
MEAN	2.01	0.26	0.00	-
S.D.	0.10	0.04	0.01	-

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	149.0	33.1	0.75	-
2-	130.0	26.9	0.72	-
3-	148.1	29.7	0.77	-
4-	153.7	32.7	0.73	-
5-	98.0	23.5	0.74	-
6-	126.4	26.3	0.72	-
MEAN	134.2	28.7	0.74	-
S.D.	20.9	3.9	0.02	-

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES 1-	8.67	0.21	30.586
2-	7.63	0.28	30.582
3-	8.69	0.09	30.578
4-	7.71	0.13	30.575
5-	8.51	0.04	30.576
6-	8.37	0.11	30.577
MEAN	8.26	0.14	30.579
S.D.	0.48	0.09	0.004

DATE: 26/02/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.84	0.29	0.01	-
	2-	2.07	0.29	0.00	-
	3-	2.08	0.29	0.00	-
	4-	2.13	0.30	0.00	-
	5-	2.06	0.29	0.00	-
	6-	2.29	0.27	0.00	-
	MEAN	2.08	0.29	0.00	-
	S.D.	0.14	0.01	-	-

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	114.4	26.3	0.68	-
	2-	100.8	25.2	0.70	-
	3-	106.2	24.1	0.76	-
	4-	148.2	29.2	0.70	-
	5-	114.4	27.2	0.75	-
	6-	139.5	26.3	0.78	-
	MEAN	120.6	26.4	0.73	-
	S.D.	19.0	1.8	0.04	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	7.73	0.11	30.550
	2-	8.59	0.04	30.552
	3-	8.75	0.00	30.549
	4-	8.67	0.04	30.550
	5-	8.56	0.17	30.551
	6-	-	0.04	30.550
	MEAN	8.46	0.07	30.550
	S.D.	0.42	0.06	0.001

DATE: 29/02/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.30	0.33	0.00	-
	2-	2.24	0.36	0.00	-
	3-	2.03	0.35	0.00	-
	4-	2.32	0.25	0.01	-
	5-	2.13	0.34	0.00	-
	6-	2.16	-	-	-
	MEAN	2.20	0.33	0.00	-
	S.D.	0.11	0.04	-	-

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	100.7	23.2	0.70	-
	2-	139.5	26.6	0.70	-
	3-	113.5	24.4	0.71	-
	4-	91.2	24.4	0.77	-
	5-	105.3	23.0	0.72	-
	6-	-	-	0.70	-
	MEAN	110.0	24.3	0.72	-
	S.D.	18.3	1.4	0.03	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	8.45	0.04	30.531
	2-	8.83	0.26	30.532
	3-	9.09	0.06	30.525
	4-	8.69	0.08	30.532
	5-	8.11	0.02	30.527
	6-	-	-	30.528
	MEAN	8.63	0.08	30.529
	S.D.	0.37	0.11	0.003

DATE: 29/02/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.13	0.30	0.00	-
	2-	2.27	0.39	0.00	-
	3-	2.25	0.35	0.00	-
	4-	2.12	0.34	0.00	-
	5-	2.14	0.36	0.00	-
	6-	-	-	-	-
	MEAN	2.18	0.35	0.00	-
	S.D.	0.07	0.03	-	-

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	115.6	24.9	0.81	-
	2-	171.9	32.9	0.74	-
	3-	128.2	26.6	0.74	-
	4-	125.7	22.7	0.72	-
	5-	107.2	26.6	0.76	-
	6-	121.1	26.6	0.70	-
	MEAN	128.3	26.7	0.75	-
	S.D.	22.7	3.4	0.04	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	8.61	0.17	30.511
	2-	6.69	0.21	30.509
	3-	7.81	0.04	30.514
	4-	8.83	0.24	30.519
	5-	7.20	0.17	30.517
	6-	-	0.06	30.522
	MEAN	7.83	0.15	30.515
	S.D.	0.91	0.08	0.005

DATE: 04/03/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.69	1.79	0.00	1.59
	2-	2.64	1.76	0.00	1.67
	3-	2.67	1.78	0.00	2.14
	4-	2.71	1.83	0.00	2.17
	5-	2.67	1.78	0.00	2.23
	6-	2.61	1.65	0.00	2.00
	MEAN	2.67	1.77	0.00	1.97
	S.D.	0.04	0.06	-	0.27

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	0.66	3.39
	2-	-	-	0.61	3.59
	3-	-	-	0.61	3.65
	4-	-	-	0.61	3.73
	5-	-	-	0.60	3.75
	6-	-	-	-	3.71
	MEAN	-	-	0.62	3.64
	S.D.	-	-	0.02	0.13

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	7.63	0.04	30.435
	2-	7.79	0.09	30.433
	3-	6.56	0.00	30.437
	4-	7.63	0.34	30.436
	5-	7.71	0.30	30.436
	6-	7.73	-	30.432
	MEAN	7.51	0.15	30.435
	S.D.	0.47	0.16	0.002

DATE: 04/03/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	9.15	1.81	0.00	1.47
	2-	8.56	1.83	0.00	1.47
	3-	7.94	1.83	0.00	0.90
	4-	7.94	1.85	0.00	2.23
	5-	8.76	1.91	0.00	1.43
	6-	-	2.02	-	-
	MEAN	8.47	1.88	0.00	1.50
	S.D.	0.53	0.08	-	0.48

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	0.59	2.51
	2-	-	-	0.59	2.67
	3-	-	-	0.58	3.55
	4-	-	-	0.58	3.27
	5-	-	-	0.63	3.59
	6-	-	-	0.57	2.69
	MEAN	-	-	0.59	3.05
	S.D.	-	-	0.02	0.48

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	7.57	0.39	30.424
	2-	7.57	0.75	30.419
	3-	6.37	0.62	30.425
	4-	6.75	0.15	30.423
	5-	6.35	0.17	30.421
	6-	6.43	0.26	30.425
	MEAN	6.84	0.39	30.423
	S.D.	0.58	0.25	0.002

DATE: 04/03/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.25	1.60	0.00	2.27
	2-	7.63	1.69	0.00	2.00
	3-	7.95	1.85	0.00	2.43
	4-	8.50	1.70	0.00	2.10
	5-	7.74	1.69	0.00	1.90
	6-	-	-	-	1.93
	MEAN	7.81	1.71	0.00	2.11
	S.D.	0.46	0.09	-	0.21

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	0.53	3.51
	2-	-	-	0.57	2.73
	3-	-	-	0.60	3.13
	4-	-	-	0.67	3.53
	5-	-	-	0.58	2.49
	6-	-	-	0.62	3.43
	MEAN	-	-	0.60	3.14
	S.D.	-	-	0.05	0.44

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	7.41	0.04	30.440
	2-	7.68	0.36	30.439
	3-	7.76	0.36	30.440
	4-	7.57	0.02	30.439
	5-	7.79	0.02	30.438
	6-	7.73	0.04	30.440
	MEAN	7.66	0.14	30.439
	S.D.	0.14	0.17	0.001

DATE: 04/03/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.91	1.52	0.00	2.33
	2-	7.69	1.78	0.00	1.96
	3-	6.85	1.70	0.00	2.36
	4-	8.09	1.80	0.00	2.44
	5-	8.61	1.37	0.05	1.75
	6-	-	1.83	0.00	2.65
	MEAN	7.83	1.67	0.01	2.25
	S.D.	0.64	0.18	0.02	0.33

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	0.60	2.69
	2-	-	-	0.61	3.53
	3-	-	-	0.68	3.63
	4-	-	-	0.64	3.75
	5-	-	-	0.62	2.83
	6-	-	-	0.64	3.09
	MEAN	-	-	0.63	3.25
	S.D.	-	-	0.03	0.45

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	6.24	0.13	30.453
	2-	6.67	0.02	30.453
	3-	6.91	0.30	30.456
	4-	6.29	0.21	30.453
	5-	6.53	0.02	30.453
	6-	6.43	0.41	30.454
	MEAN	6.51	0.18	30.454
	S.D.	0.25	0.16	0.001

DATE: 04/03/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.43	1.70	0.00	2.30
	2-	7.59	1.78	0.00	2.08
	3-	13.01	1.87	0.00	2.91
	4-	8.70	2.01	0.00	2.31
	5-	11.01	1.96	0.00	3.08
	6-	-	1.96	0.00	-
	MEAN	9.55	1.88	0.00	2.54
	S.D.	2.41	0.12	-	0.43

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	0.48	2.27
	2-	-	-	0.57	2.73
	3-	-	-	0.49	2.25
	4-	-	-	0.53	2.55
	5-	-	-	0.57	3.29
	6-	-	-	0.59	2.11
	MEAN	-	-	0.54	2.53
	S.D.	-	-	0.05	0.43

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	7.31	0.36	30.406
	2-	7.12	0.02	30.404
	3-	6.35	0.15	30.404
	4-	7.65	0.15	-
	5-	7.73	0.21	-
	6-	7.25	0.26	-
	MEAN	7.24	0.19	30.405
	S.D.	0.49	0.12	0.002

DATE: 04/03/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.54	1.66	0.00	2.16
	2-	7.04	1.65	0.00	2.01
	3-	7.19	1.49	0.00	2.06
	4-	7.01	1.61	0.00	2.06
	5-	6.94	1.49	0.00	2.58
	6-	-	1.74	0.00	2.28
	MEAN	6.94	1.61	0.00	2.19
	S.D.	0.24	0.10	-	0.21

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	0.59	2.61
	2-	-	-	0.54	3.99
	3-	-	-	0.53	3.79
	4-	-	-	0.63	3.85
	5-	-	-	0.53	2.85
	6-	-	-	0.56	2.99
	MEAN	-	-	0.56	3.35
	S.D.	-	-	0.04	0.60

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	8.05	0.71	30.479
	2-	6.27	0.30	30.476
	3-	6.51	0.39	30.476
	4-	5.65	0.60	30.478
	5-	8.21	0.26	30.482
	6-	-	-	30.478
	MEAN	6.94	0.45	30.478
	S.D.	1.13	0.02	0.002

DATE: 11/03/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	16.00	20.52	0.00	4.30
	2-	17.79	17.40	0.00	3.98
	3-	15.60	20.97	0.00	3.60
	4-	15.76	20.07	0.00	4.34
	5-	17.27	22.21	0.00	3.04
	6-	-	20.52	0.00	4.44
	MEAN	16.48	20.28	0.00	3.95
	S.D.	0.98	1.59	-	0.54

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	482.5	101.1	0.22	0.02
	2-	626.4	136.4	0.26	0.02
	3-	525.6	121.7	0.27	0.01
	4-	544.4	128.3	0.22	0.03
	5-	514.9	112.0	0.22	0.02
	6-	579.0	123.7	0.26	0.02
	MEAN	545.2	120.5	0.24	0.02
	S.D.	50.3	12.4	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	2.61	0.75	30.461
	2-	2.85	0.28	30.464
	3-	3.01	0.17	30.465
	4-	3.49	0.34	30.462
	5-	2.69	0.15	30.460
	6-	3.23	0.45	30.458
	MEAN	2.98	0.36	30.462
	S.D.	0.34	0.22	-

DATE: 11/03/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	16.43	19.00	0.00	3.68
	2-	15.93	19.81	0.00	4.28
	3-	16.57	20.97	0.00	3.93
	4-	16.15	17.40	0.00	4.71
	5-	18.66	20.16	0.00	4.94
	6-	-	20.07	0.00	5.36
	MEAN	16.75	19.57	0.00	4.48
	S.D.	1.10	1.24	-	0.64

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	495.5	98.0	0.22	0.05
	2-	532.4	95.5	0.22	0.05
	3-	508.1	103.4	0.22	0.04
	4-	416.2	72.3	0.23	0.05
	5-	511.8	100.8	0.23	0.06
	6-	524.9	94.2	0.23	0.05
	MEAN	498.2	94.0	0.23	0.05
	S.D.	49.2	11.2	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	2.75	0.56	30.416
	2-	2.43	0.47	30.417
	3-	3.09	0.73	30.414
	4-	2.32	0.47	30.414
	5-	3.15	0.47	30.415
	6-	2.53	0.51	30.415
	MEAN	2.71	0.54	30.415
	S.D.	0.35	0.10	0.002

DATE: 11/03/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	16.73	18.74	0.00	4.63
	2-	16.41	18.29	0.00	5.13
	3-	16.68	19.09	0.00	5.05
	4-	14.18	18.65	0.00	5.05
	5-	17.01	17.84	0.00	5.00
	6-	-	17.40	0.00	5.00
	MEAN	16.20	18.34	0.00	4.98
	S.D.	1.15	0.63	-	0.18

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	505.3	122.7	0.19	0.04
	2-	485.0	90.1	0.22	0.02
	3-	526.7	77.4	0.22	0.02
	4-	589.7	118.6	0.24	0.02
	5-	548.1	143.6	0.19	0.03
	6-	561.0	113.0	0.21	0.01
	MEAN	536.0	110.9	0.21	0.02
	S.D.	39.2	23.9	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	2.93	0.36	30.423
	2-	3.04	0.54	30.422
	3-	2.05	0.13	30.423
	4-	2.99	0.39	30.420
	5-	3.01	0.51	30.421
	6-	3.07	-	30.422
	MEAN	2.85	0.39	30.422
	S.D.	0.39	0.16	0.001

DATE: 11/02/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	15.89	21.14	0.00	5.48
	2-	16.41	20.34	0.00	6.33
	3-	16.86	20.79	0.00	5.90
	4-	15.31	20.07	0.00	5.90
	5-	15.60	18.29	0.00	6.98
	6-	-	-	-	6.03
	MEAN	16.01	20.13	0.00	6.10
	S.D.	0.62	1.11	-	0.51

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	565.2	111.5	0.24	0.04
	2-	482.1	96.0	0.24	0.08
	3-	506.4	108.2	0.22	0.05
	4-	500.0	97.5	0.24	0.04
	5-	476.1	93.7	0.20	0.06
	6-	528.5	97.8	0.25	0.04
	MEAN	509.7	100.8	0.23	0.06
	S.D.	33.0	7.3	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	3.09	0.17	30.511
	2-	3.31	0.15	30.507
	3-	3.49	0.21	30.508
	4-	2.88	0.26	30.510
	5-	3.81	0.21	30.509
	6-	3.71	0.26	30.510
	MEAN	3.38	0.21	30.509
	S.D.	0.36	0.05	0.002

DATE: 11/03/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	13.19	17.31	0.00	3.95
	2-	15.54	19.09	0.00	4.11
	3-	14.69	19.98	0.00	4.64
	4-	16.83	19.54	0.00	4.53
	5-	14.70	19.63	0.00	4.25
	6-	-	-	0.00	4.11
	MEAN	14.99	19.11	0.00	4.27
	S.D.	1.33	1.06	-	0.27

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	515.3	96.2	0.23	0.01
	2-	530.2	86.1	0.24	0.01
	3-	522.4	92.9	0.26	0.03
	4-	564.4	99.0	0.24	0.02
	5-	552.5	103.1	0.23	0.05
	6-	590.5	119.1	0.21	0.00
	MEAN	545.9	99.4	0.24	0.02
	S.D.	28.7	11.2	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	2.75	0.26	30.429
	2-	2.64	0.41	30.430
	3-	2.96	0.32	30.428
	4-	2.16	0.36	30.427
	5-	2.69	0.45	30.422
	6-	2.75	-	30.429
	MEAN	2.66	0.36	30.428
	S.D.	0.27	0.07	0.003

DATE: 11/03/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	12.54	18.74	0.00	4.70
	2-	14.25	16.50	0.00	4.48
	3-	14.78	16.59	0.00	5.23
	4-	11.15	17.40	0.00	5.06
	5-	14.81	20.52	0.00	4.75
	6-	-	19.72	0.00	4.61
	MEAN	13.51	18.25	0.00	4.80
	S.D.	1.61	1.68	-	0.28

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	632.5	122.7	0.25	0.01
	2-	544.5	109.5	0.23	0.01
	3-	564.8	116.1	0.21	0.01
	4-	473.2	113.0	0.20	0 0.03
	5-	636.0	116.1	0.24	0.00
	6-	597.9	126.3	0.23	0.03
	MEAN	574.8	117.3	0.23	0.02
	S.D.	61.56	6.2	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	2.37	0.41	30.406
	2-	2.05	0.30	30.406
	3-	2.48	0.24	30.403
	4-	2.59	0.26	30.407
	5-	2.53	0.28	30.404
	6-	-	0.43	30.407
	MEAN	2.40	0.32	30.406
	S.D.	0.21	0.08	0.002

DATE: 18/03/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	16.61	16.51	0.00	5.75
	2-	18.75	16.67	0.00	5.66
	3-	17.76	16.78	0.00	5.80
	4-	17.72	16.44	0.00	5.73
	5-	17.15	15.78	0.00	4.39
	6-	18.58	16.55	0.00	-
	MEAN	17.76	16.46	0.00	5.47
	S.D.	0.82	0.35	-	0.61

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	719.1	132.9	0.20	0.04
	2-	611.1	123.2	0.18	0.02
	3-	719.1	83.5	0.16	0.01
	4-	675.2	127.8	0.17	0.01
	5-	669.2	134.9	0.20	0.00
	6-	670.0	81.5	0.20	0.00
	MEAN	677.3	114.0	0.19	0.01
	S.D.	40.0	24.7	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES	1-	0.72	0.19	30.701
	2-	0.69	0.13	30.700
	3-	0.75	0.26	30.697
	4-	0.75	0.26	30.699
	5-	0.83	0.17	30.697
	6-	0.77	-	30.704
	MEAN	0.75	0.20	30.700
	S.D.	0.05	0.06	0.003

DATE: 18/03/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	17.85	17.48	0.00	4.71
	2-	20.93	17.06	0.00	4.41
	3-	18.11	17.37	0.00	5.26
	4-	18.53	17.02	0.00	5.56
	5-	18.13	17.09	0.00	4.31
	6-	-	17.17	0.00	5.33
	MEAN	18.71	17.20	0.00	4.93
	S.D.	1.26	0.19	-	0.52

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	581.8	79.3	0.20	0.00
	2-	577.9	86.4	0.19	0.01
	3-	589.2	83.9	0.18	0.00
	4-	668.2	87.5	0.20	0.00
	5-	666.6	89.5	0.17	0.00
	6-	598.2	82.0	0.18	0.00
	MEAN	613.7	84.8	0.19	0.00
	S.D.	42.2	3.8	0.01	0.00

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.07	0.45	30.726
	2-	1.04	0.47	30.727
	3-	1.04	0.54	30.725
	4-	1.20	0.58	30.722
	5-	0.85	0.62	30.727
	6-	0.83	-	30.727
	MEAN	1.01	0.53	30.726
	S.D.	0.14	0.07	0.002

DATE: 18/03/75
STATION: 3
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	18.67	17.13	0.00	5.14
2-	18.83	16.78	0.00	5.26
3-	16.79	16.98	0.00	5.21
4-	18.79	17.37	0.00	5.75
5-	18.31	16.90	0.00	4.82
6-	18.06	17.79	0.00	5.02
MEAN	18.24	17.16	0.00	5.20
S.D.	0.77	0.37	-	0.31

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	629.7	86.3	0.17	0.07
2-	598.2	80.9	0.17	0.05
3-	692.4	107.1	0.23	0.05
4-	596.3	77.6	0.15	0.04
5-	637.1	82.3	0.15	0.02
6-	570.5	72.1	0.15	0.05
MEAN	620.7	84.4	0.17	0.05
S.D.	42.7	12.1	0.03	0.02

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES 1-	0.85	0.15	30.738
2-	0.99	0.19	30.741
3-	0.99	0.19	30.741
4-	1.01	0.17	30.743
5-	1.20	0.13	30.736
6-	1.28	-	30.740
MEAN	1.05	0.17	30.740
S.D.	0.16	0.03	0.003

DATE: 18/03/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	17.94	16.98	0.00	4.88
	2-	18.06	17.56	0.00	5.36
	3-	20.06	16.20	0.00	5.21
	4-	18.51	17.60	0.00	5.26
	5-	18.85	18.18	0.00	5.51
	6-	-	17.09	0.00	-
	MEAN	18.68	17.27	0.00	5.24
	S.D.	0.85	0.68	-	-

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	666.3	99.7	0.17	0.00
	2-	659.2	85.0	0.15	0.02
	3-	603.9	81.2	0.18	0.01
	4-	644.2	87.0	0.15	0.02
	5-	721.6	85.3	0.13	0.00
	6-	685.0	91.7	0.15	0.02
	MEAN	663.4	88.3	0.16	0.01
	S.D.	39.5	6.5	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.85	0.09	30.735
	2-	0.91	0.13	30.729
	3-	0.96	0.32	30.728
	4-	1.01	0.28	30.730
	5-	0.99	0.47	30.724
	6-	0.99	0.56	30.727
	MEAN	0.95	0.31	30.729
	S.D.	0.06	0.18	0.004

DATE: 18/03/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	17.01	16.71	0.00	4.92
	2-	16.11	16.71	0.00	5.46
	3-	17.44	16.48	0.00	5.13
	4-	17.48	16.63	0.00	4.93
	5-	15.78	16.86	0.00	4.53
	6-	17.47	16.32	0.00	4.53
	MEAN	16.88	16.62	0.00	4.92
	S.D.	0.75	0.19	-	0.36

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	657.8	52.5	0.09	0.05
	2-	714.0	92.5	0.14	0.03
	3-	714.9	82.8	0.12	0.06
	4-	782.2	99.7	0.10	0.04
	5-	726.0	81.2	0.12	0.05
	6-	782.2	112.7	0.12	-
	MEAN	729.5	86.9	0.12	0.05
	S.D.	47.3	20.5	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.72	0.19	30.720
	2-	0.88	0.00	30.717
	3-	0.99	0.00	30.717
	4-	0.69	0.21	30.720
	5-	0.85	0.09	30.718
	6-	0.80	0.06	30.718
	MEAN	0.82	0.09	30.718
	S.D.	0.11	0.09	0.001

DATE: 18/03/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	17.89	15.86	0.00	5.43
	2-	18.10	16.20	0.00	5.43
	3-	16.35	15.39	0.00	5.63
	4-	15.45	16.01	0.00	5.58
	5-	16.68	16.24	0.00	5.73
	6-	-	16.05	0.00	5.88
	MEAN	16.89	15.96	0.00	5.55
	S.D.	1.10	0.31	-	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	644.9	71.5	0.11	0.02
	2-	702.5	91.7	0.13	0.05
	3-	644.9	74.8	0.12	0.03
	4-	743.5	89.7	0.08	0.03
	5-	722.3	81.2	0.08	0.02
	6-	-	-	0.09	0.04
	MEAN	691.6	81.8	0.10	0.03
	S.D.	45.1	8.9	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.93	0.04	30.719
	2-	0.67	0.11	30.718
	3-	0.80	0.19	30.721
	4-	0.91	0.19	30.720
	5-	0.72	0.39	30.720
	6-	1.12	0.39	30.721
	MEAN	0.86	0.22	30.720
	S.D.	0.16	0.14	0.001

DATE: 03/04/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.31	10.05	0.00	4.24
	2-	6.84	9.90	0.00	4.00
	3-	7.11	9.82	0.00	4.29
	4-	6.64	10.13	0.00	4.78
	5-	5.61	9.67	0.00	4.51
	6-	-	10.06	0.00	4.78
	MEAN	6.50	9.94	0.00	4.43
	S.D.	0.58	0.17	-	0.31

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	368.6	39.2	0.47	1.43
	2-	791.4	48.3	0.48	1.57
	3-	431.2	55.8	0.48	1.49
	4-	481.9	14.7	0.49	1.65
	5-	363.0	44.2	0.52	1.22
	6-	850.3	50.0	0.50	1.17
	MEAN	547.7	42.0	0.49	1.42
	S.D.	216.8	14.5	0.02	0.19

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.05	0.13	31.110
	2-	0.08	0.02	31.110
	3-	0.05	0.04	31.113
	4-	0.05	0.04	31.109
	5-	0.08	0.00	31.114
	6-	-	0.06	31.110
	MEAN	0.06	0.05	31.111
	S.D.	0.02	0.05	0.002

DATE: 03/04/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.64	8.90	0.00	3.75
	2-	5.47	8.51	0.00	4.11
	3-	4.72	8.70	0.00	3.39
	4-	3.63	8.28	0.00	3.68
	5-	4.93	7.74	0.00	3.95
	6-	5.73	-	-	3.21
	MEAN	4.69	8.43	0.00	3.68
	S.D.	0.89	0.45	-	0.34

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	302.1	34.0	0.52	2.02
	2-	322.6	34.3	0.44	1.65
	3-	327.9	29.0	0.41	1.59
	4-	375.9	36.5	0.46	1.29
	5-	806.1	48.3	0.52	1.76
	6-	365.0	38.1	0.50	2.01
	MEAN	416.6	36.7	0.48	1.72
	S.D.	192.8	6.5	0.05	0.28

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.19	0.00	30.976
	2-	0.21	0.15	30.973
	3-	0.21	0.13	30.981
	4-	0.19	0.24	30.981
	5-	0.19	0.26	30.978
	6-	0.21	0.26	30.978
	MEAN	0.20	0.17	30.978
	S.D.	0.01	0.10	0.003

DATE: 03/04/75
STATION: 3
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	5.72	10.17	0.00	4.78
2-	7.69	10.21	0.00	5.11
3-	5.68	9.86	0.00	4.95
4-	5.89	8.39	0.01	4.84
5-	5.64	9.98	0.00	4.90
6-	-	10.02	0.00	4.78
MEAN	6.12	9.77	0.00	4.89
S.D.	0.88	0.69	-	0.13

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	456.9	44.5	0.49	1.25
2-	447.9	49.2	0.40	1.19
3-	453.2	40.6	0.47	1.18
4-	484.8	59.7	0.45	1.33
5-	431.1	41.7	0.46	0.93
6-	503.2	65.7	0.42	1.32
MEAN	462.9	50.2	0.45	1.20
S.D.	26.3	10.3	0.03	0.15

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES 1-	0.08	0.00	31.029
2-	0.11	0.00	31.026
3-	0.08	0.09	31.019
4-	0.08	0.15	31.016
5-	0.11	0.00	31.020
6-	0.29	0.09	31.026
MEAN	0.13	0.06	31.023
S.D.	0.08	0.06	0.005

DATE: 03/04/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.60	9.63	0.00	4.00
	2-	5.74	9.44	0.00	4.45
	3-	5.34	9.59	0.00	4.45
	4-	5.61	9.63	0.00	4.59
	5-	-	9.63	0.00	4.56
	6-	-	9.09	0.00	4.30
	MEAN	5.57	9.50	0.00	4.39
	S.D.	0.17	0.22	-	0.22

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	390.6	36.7	0.48	1.55
	2-	394.5	51.4	0.50	2.05
	3-	387.1	40.9	0.53	2.05
	4-	371.2	38.4	0.51	1.95
	5-	459.0	51.4	0.47	1.97
	6-	-	-	0.53	1.88
	MEAN	400.5	43.8	0.50	1.91
	S.D.	33.9	7.1	0.03	0.19

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.45	0.00	30.988
	2-	0.27	0.04	30.991
	3-	0.32	0.00	30.990
	4-	0.29	0.19	30.994
	5-	0.32	0.09	30.995
	6-	0.37	0.17	30.996
	MEAN	0.34	0.08	30.992
	S.D.	0.07	0.08	0.003

DATE: 03/04/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.29	10.36	0.00	4.53
	2-	5.78	10.17	0.00	4.19
	3-	5.69	9.20	0.00	4.23
	4-	5.41	9.75	0.00	4.30
	5-	6.11	10.09	0.00	4.56
	6-	-	10.17	0.00	4.53
	MEAN	5.86	9.96	0.00	4.39
	S.D.	0.35	0.42	-	0.17

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	405.3	32.9	0.41	0.59
	2-	473.7	60.2	0.44	0.78
	3-	397.9	35.6	0.45	0.71
	4-	407.3	56.9	0.42	0.77
	5-	373.9	51.1	0.43	0.51
	6-	382.6	53.0	0.44	0.75
	MEAN	410.5	48.3	0.43	0.69
	S.D.	43.0	11.4	0.02	0.11

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.08	0.04	31.100
	2-	0.13	0.06	31.100
	3-	0.13	0.13	31.111
	4-	0.03	0.09	31.098
	5-	0.11	0.11	31.100
	6-	0.13	0.13	31.108
	MEAN	0.10	0.09	31.103
	S.D.	0.04	0.04	0.005

DATE: 03/04/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.88	11.33	0.00	3.87
	2-	6.19	11.25	0.00	4.15
	3-	5.91	11.76	0.00	3.81
	4-	6.30	11.33	0.00	4.49
	5-	5.82	11.33	0.00	4.26
	6-	6.38	11.91	0.00	4.00
	MEAN	6.08	11.49	0.00	4.10
	S.D.	0.24	0.28	-	0.26

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	385.8	63.5	0.40	0.28
	2-	357.7	35.9	0.38	0.36
	3-	396.0	63.8	0.41	0.27
	4-	433.3	51.9	0.41	0.29
	5-	409.8	62.7	0.54	0.28
	6-	483.0	43.4	0.44	0.34
	MEAN	410.9	53.5	0.43	0.30
	S.D.	43.3	11.9	0.06	0.04

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.03	0.06	31.112
	2-	0.03	0.13	31.109
	3-	0.03	0.13	31.111
	4-	0.03	0.09	31.099
	5-	0.16	0.17	31.111
	6-	-	0.11	31.099
	MEAN	0.06	0.12	31.107
	S.D.	0.06	0.04	0.006

DATE: 08/04/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	8.42	11.64	0.00	4.89
	2-	7.90	11.37	0.00	6.60
	3-	8.07	11.49	0.00	5.86
	4-	7.48	11.99	0.00	5.51
	5-	7.97	11.41	0.00	4.11
	6-	8.46	11.68	0.00	4.78
	MEAN	8.05	11.60	0.00	5.29
	S.D.	0.36	0.23	-	0.88

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	405.2	76.5	0.34	0.53
	2-	396.4	44.8	0.35	0.57
	3-	372.9	67.7	0.36	0.54
	4-	402.0	48.3	0.39	0.58
	5-	417.2	75.4	0.35	0.43
	6-	405.6	45.3	0.38	0.59
	MEAN	399.9	59.7	0.36	0.54
	S.D.	14.9	15.2	0.02	0.06

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.43	0.21	30.963
	2-	0.24	0.13	30.967
	3-	0.45	0.28	30.970
	4-	0.24	0.28	30.964
	5-	0.13	0.17	30.967
	6-	0.16	0.17	30.956
	MEAN	0.28	0.21	30.965
	S.D.	0.14	0.06	0.005

DATE: 08/04/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.02	10.25	0.00	5.05
	2-	6.42	8.78	0.00	5.81
	3-	6.11	9.75	0.00	5.36
	4-	6.42	10.06	0.00	5.31
	5-	6.25	9.48	0.00	5.18
	6-	-	9.67	0.00	-
	MEAN	6.44	9.67	0.00	5.34
	S.D.	0.35	0.51	-	0.29

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	362.5	47.2	0.36	0.75
	2-	352.7	48.3	0.36	0.83
	3-	373.5	53.0	0.38	0.76
	4-	391.4	52.2	0.41	0.94
	5-	385.5	49.2	0.43	0.84
	6-	367.4	53.3	0.41	0.98
	MEAN	372.2	50.5	0.39	0.85
	S.D.	14.5	2.6	0.03	0.09

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.21	0.13	30.856
	2-	0.45	0.15	30.857
	3-	0.37	0.28	30.858
	4-	0.37	0.17	30.858
	5-	0.37	0.30	30.859
	6-	0.27	0.32	30.856
	MEAN	0.34	0.23	30.857
	S.D.	0.09	0.08	0.001

DATE: 08/04/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.14	9.75	0.00	5.19
	2-	6.72	9.75	0.00	4.09
	3-	6.07	9.17	0.00	5.08
	4-	6.91	9.71	0.00	3.65
	5-	6.52	9.90	0.00	3.74
	6-	6.05	9.94	0.00	4.09
	MEAN	6.57	9.70	0.00	4.30
	S.D.	0.44	0.28	-	0.67

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	395.6	61.0	0.39	1.06
	2-	407.9	56.1	0.43	.0.86
	3-	369.8	49.2	0.39	0.79
	4-	389.5	50.8	0.44	1.09
	5-	377.2	42.3	0.41	0.85
	6-	393.2	61.0	0.47	0.82
	MEAN	388.9	53.4	0.42	0.91
	S.D.	13.6	7.4	0.03	0.13

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES	1-	0.37	0.09	30.945
	2-	0.48	0.06	30.946
	3-	0.40	0.09	30.943
	4-	0.27	0.15	30.946
	5-	0.32	0.06	30.947
	6-	0.29	0.26	30.947
	MEAN	0.36	0.12	30.946
	S.D.	0.08	0.08	0.002

DATE: 08/04/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.24	9.40	0.00	4.46
	2-	6.4	10.17	0.00	4.31
	3-	6.55	9.71	0.00	4.46
	4-	7.57	9.86	0.00	3.34
	5-	6.26	9.86	0.00	4.89
	6-	-	-	0.00	4.06
	MEAN	6.60	9.80	0.00	4.25
	S.D.	0.55	0.28	-	0.52

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	411.3	50.0	0.42	0.75
	2-	384.9	54.1	0.43	0.81
	3-	392.9	56.1	0.45	0.73
	4-	380.3	48.3	0.45	0.86
	5-	385.5	22.1	0.42	0.85
	6-	412.6	56.3	0.37	0.95
	MEAN	394.6	47.8	0.42	0.83
	S.D.	14.1	13.0	0.03	0.08

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.29	0.09	31.008
	2-	0.32	0.13	31.004
	3-	0.24	0.17	31.000
	4-	0.32	0.32	31.007
	5-	0.37	0.28	31.013
	6-	-	-	31.002
	MEAN	0.31	0.20	31.006
	S.D.	0.05	0.10	0.005

DATE: 08/04/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.62	9.36	0.00	4.79
	2-	5.80	7.93	0.00	5.48
	3-	8.00	10.25	0.00	5.83
	4-	6.98	9.71	0.00	5.68
	5-	5.96	9.67	0.00	5.60
	6-	-	-	-	6.11
	MEAN	6.47	9.38	0.00	5.58
	S.D.	1.00	0.87	-	0.45

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	476.0	60.8	0.29	0.06
	2-	395.7	52.2	0.28	0.06
	3-	535.0	60.2	0.32	0.09
	4-	458.4	61.0	0.33	0.05
	5-	464.9	33.2	0.34	0.09
	6-	480.5	57.2	0.36	0.11
	MEAN	468.4	54.1	0.32	0.08
	S.D.	44.8	10.8	0.03	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.27	0.04	30.824
	2-	0.21	0.06	30.821
	3-	0.29	0.06	30.824
	4-	0.21	0.09	30.817
	5-	0.24	0.09	30.818
	6-	0.21	0.19	30.821
	MEAN	0.24	0.09	30.821
	S.D.	0.04	0.05	0.003

DATE: 08/04/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.59	13.65	0.00	6.41
	2-	8.05	13.15	0.00	5.90
	3-	7.90	12.18	0.00	5.95
	4-	8.74	13.73	0.00	5.90
	5-	7.17	14.23	0.00	5.81
	6-	-	12.18	0.00	6.30
	MEAN	7.89	13.19	0.00	6.05
	S.D.	0.58	0.85	-	0.25

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	457.6	76.7	0.39	0.20
	2-	502.6	67.1	0.40	0.23
	3-	479.7	69.6	0.41	0.22
	4-	495.2	67.7	0.41	0.19
	5-	494.4	66.3	0.39	0.23
	6-	495.2	63.2	0.34	0.18
	MEAN	487.5	68.4	0.39	0.21
	S.D.	16.4	4.6	0.03	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.27	0.09	30.942
	2-	0.27	0.19	30.936
	3-	0.37	0.09	30.940
	4-	0.32	0.11	30.940
	5-	0.37	0.26	30.938
	6-	-	-	30.940
	MEAN	0.32	0.15	30.939
	S.D.	0.05	0.08	0.002

DATE: 22/04/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.67	7.54	0.19	4.00
	2-	5.86	8.12	0.00	5.81
	3-	5.74	7.66	0.08	4.90
	4-	6.25	8.24	0.00	4.66
	5-	-	8.04	0.00	5.19
	6-	-	8.28	0.08	-
	MEAN	5.88	7.98	0.06	4.91
	S.D.	0.26	0.31	0.08	0.67

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	406.0	46.4	0.29	0.00
	2-	399.4	39.0	0.32	0.00
	3-	435.5	47.0	0.38	0.00
	4-	436.3	42.3	0.34	0.00
	5-	442.8	42.5	0.34	0.00
	6-	432.6	42.3	0.34	0.00
	MEAN	425.4	43.3	0.34	0.00
	S.D.	18.0	3.0	0.03	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.21	0.54	30.816
	2-	0.11	0.32	30.816
	3-	0.11	0.54	30.816
	4-	0.37	0.27	30.817
	5-	0.16	0.39	30.815
	6-	0.27	0.47	30.824
	MEAN	0.21	0.42	30.817
	S.D.	0.10	0.11	0.003

DATE: 22/04/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.07	8.51	0.00	5.08
	2-	6.25	8.97	0.00	5.55
	3-	4.79	8.51	0.00	5.58
	4-	3.98	8.51	0.00	5.08
	5-	5.51	8.32	0.00	5.53
	6-	-	8.51	0.00	6.90
	MEAN	5.12	8.56	0.00	5.62
	S.D.	0.84	0.22	-	0.67

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	402.3	45.3	0.30	0.00
	2-	398.6	43.9	0.40	0.00
	3-	403.2	39.8	0.32	0.00
	4-	398.6	35.6	0.34	0.00
	5-	418.0	39.8	0.32	0.00
	6-	424.4	47.2	0.34	0.00
	MEAN	407.2	41.9	0.34	0.00
	S.D.	11.0	4.3	0.03	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.03	0.15	31.055
	2-	0.16	0.27	31.049
	3-	0.13	0.39	31.049
	4-	0.08	0.27	31.045
	5-	0.05	0.27	31.049
	6-	0.11	0.24	31.052
	MEAN	0.09	0.27	31.050
	S.D.	0.05	0.08	0.003

DATE: 22/04/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.35	8.04	0.00	6.28
	2-	6.18	7.85	0.00	5.61
	3-	4.53	7.54	0.05	5.61
	4-	4.95	7.74	0.00	5.33
	5-	5.60	8.08	0.10	5.93
	6-	-	8.04	0.20	5.19
	MEAN	5.12	7.88	0.06	5.66
	S.D.	0.76	0.21	0.08	0.40

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	388.5	34.3	0.28	0.00
	2-	431.5	46.7	0.25	0.00
	3-	432.7	44.2	0.33	0.00
	4-	439.2	48.9	0.35	0.00
	5-	406.9	37.6	0.31	0.00
	6-	431.8	43.9	0.33	0.00
	MEAN	421.8	42.6	0.31	0.00
	S.D.	19.7	5.6	0.04	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.13	0.45	30.828
	2-	0.03	0.28	30.828
	3-	0.27	0.30	30.833
	4-	0.19	0.30	30.830
	5-	0.11	0.27	30.832
	6-	0.16	0.28	30.829
	MEAN	0.15	0.31	30.830
	S.D.	0.08	0.07	0.002

DATE: 22/04/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.18	8.08	0.00	6.14
	2-	5.32	7.97	0.00	6.30
	3-	5.81	7.85	0.04	5.53
	4-	4.82	8.04	0.00	5.23
	5-	4.74	7.97	0.00	5.78
	6-	5.27	7.97	0.00	5.84
	MEAN	5.27	7.98	0.01	5.80
	S.D.	0.47	0.08	0.02	0.39

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	432.7	45.3	0.34	0.00
	2-	391.3	51.1	0.31	0.00
	3-	436.4	41.4	0.33	0.00
	4-	408.1	33.2	0.34	0.00
	5-	393.9	40.3	0.31	0.00
	6-	341.7	38.7	0.35	0.00
	MEAN	400.7	41.7	0.33	0.00
	S.D.	34.6	6.1	0.02	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.32	0.19	30.644
	2-	0.27	0.24	30.645
	3-	0.32	0.32	30.640
	4-	0.27	0.15	30.644
	5-	0.37	0.15	30.645
	6-	-	0.15	30.640
	MEAN	0.31	0.20	30.643
	S.D.	0.04	0.07	0.002

DATE: 22/04/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.18	8.70	0.06	5.46
	2-	6.59	8.70	0.06	4.78
	3-	4.94	8.59	0.18	5.64
	4-	6.34	8.70	0.06	4.56
	5-	-	8.70	0.06	4.88
	6-	-	8.51	0.25	4.73
	MEAN	6.01	8.65	0.11	5.01
	S.D.	0.73	0.08	0.08	0.44

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	489.7	49.2	0.32	0.00
	2-	386.0	42.5	0.33	0.00
	3-	382.8	40.3	0.32	0.00
	4-	352.8	31.0	0.37	0.00
	5-	397.6	42.0	0.34	0.00
	6-	404.4	41.4	0.34	0.00
	MEAN	402.2	41.1	0.34	0.00
	S.D.	46.4	5.9	0.02	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.05	0.39	31.055
	2-	0.11	0.30	31.055
	3-	0.13	0.32	31.060
	4-	0.13	0.27	31.059
	5-	0.11	0.28	31.055
	6-	0.13	-	31.059
	MEAN	0.11	0.31	31.057
	S.D.	0.03	0.05	0.002

DATE: 22/04/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.86	9.09	0.00	5.45
	2-	5.91	9.09	0.00	6.61
	3-	6.46	9.24	0.00	3.49
	4-	5.65	9.13	0.00	6.10
	5-	5.21	8.90	0.13	6.19
	6-	5.00	8.90	0.13	5.75
	MEAN	5.85	9.06	0.04	5.60
	S.D.	0.72	0.13	0.07	1.11

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	416.0	50.3	0.36	0.00
	2-	386.0	39.0	0.31	0.00
	3-	416.0	42.0	0.40	0.00
	4-	397.0	35.4	0.39	0.00
	5-	423.4	53.0	0.38	0.00
	6-	393.3	41.4	0.35	0.00
	MEAN	405.3	43.5	0.37	0.00
	S.D.	15.1	6.8	0.03	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.16	0.11	31.013
	2-	0.19	0.34	31.011
	3-	0.27	0.41	31.012
	4-	0.29	0.17	31.011
	5-	-	0.28	31.012
	6-	-	0.19	31.012
	MEAN	0.23	0.25	31.012
	S.D.	0.06	0.11	0.001

DATE: 30/04/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.35	1.02	0.51	1.46
	2-	1.32	1.16	0.35	3.38
	3-	0.96	1.11	0.37	1.94
	4-	1.22	1.17	0.31	2.98
	5-	1.72	1.10	0.40	1.95
	6-	-	1.13	0.34	1.81
	MEAN	1.31	1.12	0.38	2.25
	S.D.	0.27	0.05	0.07	0.75

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	234.7	21.7	0.28	0.02
	2-	245.2	19.0	0.34	0.01
	3-	282.3	40.8	0.32	0.04
	4-	267.9	37.5	0.28	0.03
	5-	257.1	36.5	0.28	0.02
	6-	284.1	43.3	0.30	0.01
	MEAN	261.9	33.1	0.30	0.02
	S.D.	19.9	10.2	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES	1-	1.01	0.69	30.076
	2-	0.83	0.43	30.081
	3-	1.01	0.81	30.076
	4-	0.96	0.88	30.072
	5-	0.93	0.83	30.075
	6-	1.07	-	30.073
	MEAN	0.97	0.73	30.076
	S.D.	0.08	0.18	0.003

DATE: 30/04/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.12	1.17	0.37	2.38
	2-	1.18	1.21	0.33	4.15
	3-	0.93	1.23	0.31	2.31
	4-	0.86	1.16	0.38	1.80
	5-	-	1.22	0.32	4.19
	6-	-	1.19	0.32	3.09
	MEAN	1.02	1.20	0.34	2.99
	S.D.	0.15	0.03	0.03	1.00

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	239.1	43.1	0.29	0.01
	2-	273.3	44.4	0.33	0.03
	3-	230.1	37.5	0.30	0.03
	4-	222.9	37.0	0.26	0.00
	5-	246.4	42.1	0.32	0.01
	6-	245.5	58.0	0.32	0.02
	MEAN	242.9	43.7	0.30	0.02
	S.D.	17.4	7.6	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.17	0.30	29.846
	2-	1.36	0.24	29.846
	3-	1.33	0.15	29.843
	4-	1.49	0.13	29.839
	5-	1.28	0.17	29.844
	6-	-	0.21	29.843
	MEAN	1.33	0.20	29.844
	S.D.	0.12	0.06	0.003

DATE: 30/04/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.01	1.40	0.40	2.56
	2-	1.43	1.29	0.41	3.14
	3-	1.25	1.58	0.37	3.55
	4-	1.06	1.42	0.38	2.68
	5-	-	1.40	0.34	2.44
	6-	-	1.40	0.34	2.94
	MEAN	1.19	1.42	0.37	2.88
	S.D.	0.19	0.09	0.03	0.41

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	216.7	60.8	0.30	0.04
	2-	252.7	39.8	0.38	0.03
	3-	232.9	37.0	0.30	0.04
	4-	230.2	36.8	0.32	0.04
	5-	227.5	36.0	0.28	0.05
	6-	245.5	34.7	0.30	0.09
	MEAN	234.3	40.9	0.31	0.05
	S.D.	13.0	9.9	0.04	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES	1-	0.85	0.30	30.328
	2-	1.12	0.51	30.325
	3-	1.07	0.43	30.332
	4-	0.96	0.17	30.332
	5-	1.01	0.17	30.329
	6-	0.85	-	30.324
	MEAN	0.98	0.32	30.328
	S.D.	0.11	0.15	0.003

DATE: 30/04/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.34	1.41	0.33	4.04
	2-	1.20	1.36	0.30	1.99
	3-	1.21	1.38	0.31	1.59
	4-	1.13	1.28	0.33	2.95
	5-	1.16	1.32	0.37	3.20
	6-	-	1.36	0.42	2.74
	MEAN	1.21	1.35	0.34	2.75
	S.D.	0.08	0.05	0.04	0.88

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	242.8	39.8	0.30	0.01
	2-	214.9	37.5	0.34	0.02
	3-	193.3	34.5	0.31	0.01
	4-	196.9	37.0	0.34	0.01
	5-	204.1	39.0	0.32	0.01
	6-	214.9	40.8	0.34	0.01
	MEAN	211.2	38.1	0.33	0.01
	S.D.	17.9	2.3	0.02	0.00

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.91	0.11	30.305
	2-	1.17	0.21	30.302
	3-	0.91	0.26	30.293
	4-	1.04	0.19	30.300
	5-	1.07	0.13	30.305
	6-	-	0.26	30.304
	MEAN	1.02	0.19	30.302
	S.D.	0.11	0.06	0.005

DATE: 30/04/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.23	1.31	0.33	4.76
	2-	1.11	1.34	0.29	4.19
	3-	1.56	1.38	0.31	3.45
	4-	1.13	1.23	0.35	4.76
	5-	1.07	1.32	0.28	4.59
	6-	1.33	1.27	0.33	3.35
	MEAN	1.24	1.31	0.32	4.18
	S.D.	0.18	0.05	0.03	0.64

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	222.0	38.8	0.27	0.00
	2-	242.7	40.6	0.32	0.01
	3-	233.7	39.8	0.30	0.01
	4-	287.7	43.1	0.28	0.02
	5-	257.1	43.1	0.32	0.01
	6-	240.9	40.6	0.26	0.01
	MEAN	247.4	40.7	0.29	0.01
	S.D.	22.9	1.5	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.01	0.28	30.038
	2-	1.12	0.36	30.039
	3-	1.39	0.32	30.037
	4-	1.25	0.19	30.033
	5-	1.07	0.11	30.034
	6-	0.99	-	30.034
	MEAN	1.14	0.25	30.036
	S.D.	0.15	0.10	0.003

DATE: 30/04/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.25	1.21	0.23	3.24
	2-	1.17	1.19	0.17	2.40
	3-	1.28	1.38	0.25	3.23
	4-	1.27	1.40	0.23	3.96
	5-	1.12	1.34	0.28	3.30
	6-	1.05	1.31	0.28	2.36
	MEAN	1.19	1.31	0.24	3.08
	S.D.	0.09	0.09	0.04	0.61

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	262.5	43.1	0.28	0.00
	2-	242.7	41.1	0.29	0.01
	3-	223.8	38.8	0.32	0.02
	4-	253.5	41.3	0.28	0.01
	5-	251.7	42.8	0.30	0.02
	6-	262.5	44.1	0.28	0.01
	MEAN	249.5	41.9	0.29	0.01
	S.D.	14.6	1.9	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.04	0.11	30.180
	2-	1.07	0.13	30.181
	3-	1.01	0.09	30.182
	4-	1.20	0.13	30.183
	5-	1.36	0.15	30.183
	6-	1.20	0.34	30.180
	MEAN	1.15	0.16	30.182
	S.D.	0.13	0.09	0.001

DATE: 14/05/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.60	0.60	0.07	0.58
	2-	0.59	0.59	0.06	0.71
	3-	0.61	0.59	0.08	0.66
	4-	0.64	0.55	0.07	0.65
	5-	0.62	0.64	0.09	0.65
	6-	0.64	0.57	0.08	0.65
	MEAN	0.62	0.59	0.08	0.65
	S.D.	0.02	0.03	0.01	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	277.1	34.2	0.29	0.05
	2-	279.8	33.0	0.37	0.05
	3-	200.6	34.0	0.34	0.07
	4-	171.8	32.2	0.33	0.08
	5-	179.9	29.4	0.35	0.07
	6-	173.6	33.5	0.31	0.09
	MEAN	213.8	32.7	0.33	0.07
	S.D.	51.1	1.8	0.03	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.21	0.11	30.543
	2-	0.35	0.30	30.545
	3-	0.27	0.19	30.530
	4-	0.51	0.17	30.526
	5-	0.27	0.30	30.534
	6-	0.37	-	30.542
	MEAN	0.33	0.21	30.537
	S.D.	0.11	0.08	0.008

DATE: 14/05/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.76	0.66	0.08	0.84
	2-	0.70	0.65	0.09	0.75
	3-	0.72	0.69	0.06	0.84
	4-	0.69	0.65	0.08	0.71
	5-	0.60	0.63	0.07	0.73
	6-	0.74	0.67	0.07	0.78
	MEAN	0.70	0.66	0.08	0.77
	S.D.	0.06	0.02	0.01	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	173.2	34.0	0.31	0.05
	2-	185.8	35.0	0.31	0.03
	3-	184.0	35.0	0.31	0.07
	4-	169.6	34.5	0.34	0.05
	5-	246.8	43.9	0.28	0.03
	6-	178.2	34.7	0.31	0.06
	MEAN	189.6	36.2	0.31	0.05
	S.D.	28.7	3.8	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.51	0.34	30.429
	2-	0.40	0.30	30.430
	3-	0.64	0.47	30.426
	4-	0.37	0.51	30.429
	5-	0.48	0.58	30.427
	6-	0.80	0.19	30.428
	MEAN	0.53	0.40	30.428
	S.D.	0.16	0.15	0.002

DATE: 14/05/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.72	0.71	0.06	0.53
	2-	0.92	0.67	0.08	0.74
	3-	0.77	0.71	0.09	0.78
	4-	0.79	0.71	0.06	0.61
	5-	0.85	0.67	0.08	0.73
	6-	0.81	0.70	0.08	0.76
	MEAN	0.81	0.70	0.08	0.69
	S.D.	0.07	0.02	0.01	0.10

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	244.3	42.1	0.32	0.07
	2-	144.4	36.3	0.34	0.04
	3-	207.4	36.5	0.28	0.05
	4-	200.2	37.8	0.33	0.06
	5-	194.8	37.3	0.40	0.05
	6-	241.6	43.3	0.32	0.07
	MEAN	205.4	38.9	0.33	0.06
	S.D.	36.6	3.0	0.04	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.32	0.36	30.436
	2-	0.21	0.34	30.434
	3-	0.53	0.41	30.435
	4-	0.29	0.26	30.435
	5-	0.48	0.24	30.435
	6-	0.43	0.19	30.435
	MEAN	0.38	0.30	30.435
	S.D.	0.12	0.08	0.001

DATE: 14/05/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.69	0.67	0.08	0.69
	2-	0.82	0.68	0.10	0.58
	3-	1.02	0.70	0.09	0.74
	4-	0.85	0.66	0.08	0.64
	5-	0.77	0.69	0.08	0.63
	6-	0.84	0.69	0.14	0.78
	MEAN	0.83	0.68	0.10	0.67
	S.D.	0.11	0.02	0.02	0.07

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	209.2	38.3	0.34	0.07
	2-	180.4	37.5	0.33	0.06
	3-	188.5	37.8	0.27	0.05
	4-	199.8	39.0	0.30	0.03
	5-	182.2	36.8	0.31	0.06
	6-	152.5	34.0	0.34	0.04
	MEAN	185.4	37.2	0.32	0.05
	S.D.	19.5	1.8	0.03	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.51	0.39	30.451
	2-	0.43	0.30	30.452
	3-	0.45	0.17	30.446
	4-	0.45	0.15	30.452
	5-	0.53	0.28	30.456
	6-	0.48	0.21	30.454
	MEAN	0.48	0.25	30.452
	S.D.	0.04	0.09	0.003

DATE: 14/05/75
STATION: 5
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	0.87	0.67	0.05	0.70
2-	0.88	0.74	0.03	0.68
3-	0.89	0.72	0.09	0.66
4-	0.85	0.65	0.04	0.65
5-	0.93	0.70	0.07	0.75
6-	0.85	0.69	0.05	0.66
MEAN	0.88	0.70	0.06	0.68
S.D.	0.03	0.03	0.02	0.04

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	152.1	32.0	0.29	0.08
2-	183.6	35.5	0.28	0.03
3-	190.8	42.6	0.34	0.05
4-	155.7	31.7	0.34	0.02
5-	169.2	35.2	0.28	0.03
6-	173.7	34.7	0.32	0.05
MEAN	170.9	35.3	0.30	0.04
S.D.	15.2	3.9	0.04	0.02

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES 1-	0.64	0.24	30.428
2-	0.43	0.26	30.435
3-	0.40	0.47	30.421
4-	0.48	0.53	30.420
5-	0.40	0.28	30.404
6-	0.29	0.26	30.422
MEAN	0.44	0.34	30.420
S.D.	0.12	0.13	0.008

DATE: 14/05/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.92	0.83	0.10	0.75
	2-	0.90	0.82	0.06	0.68
	3-	1.10	0.84	0.06	0.71
	4-	0.87	0.77	0.11	0.70
	5-	0.89	0.85	0.07	0.73
	6-	-	0.83	0.07	0.66
	MEAN	0.94	0.82	0.08	0.71
	S.D.	0.09	0.03	0.02	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	190.8	37.3	0.29	0.05
	2-	181.8	35.2	0.31	0.03
	3-	166.4	34.2	0.29	0.07
	4-	184.5	35.7	0.30	0.07
	5-	195.3	35.7	0.32	0.04
	6-	185.4	34.0	0.28	0.06
	MEAN	184.0	35.4	0.30	0.05
	S.D.	9.9	1.2	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.69	0.39	30.210
	2-	0.96	0.56	30.218
	3-	0.53	0.30	30.212
	4-	0.69	0.13	30.212
	5-	0.59	0.26	30.212
	6-	-	0.36	30.209
	MEAN	0.69	0.33	30.212
	S.D.	0.17	0.14	0.003

DATE: 21/05/75
STATION: 1
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	1.42	0.47	0.14	0.53
2-	1.43	0.43	0.15	0.68
3-	1.54	0.45	0.16	0.63
4-	1.42	0.46	1.14	0.70
5-	1.45	0.45	0.16	0.69
6-	1.25	0.46	0.15	0.80
MEAN	1.42	0.45	0.15	0.67
S.D.	0.09	0.01	0.01	0.09

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	180.1	32.9	0.30	0.13
2-	166.6	34.4	0.29	0.15
3-	168.4	33.9	0.32	0.15
4-	176.5	35.1	0.30	0.14
5-	199.9	36.7	0.30	0.15
6-	166.6	32.1	0.36	0.14
MEAN	176.4	34.2	0.31	0.14
S.D.	12.8	1.6	0.03	0.01

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES 1-	0.83	0.56	30.394
2-	0.85	0.49	30.393
3-	0.77	0.51	30.393
4-	0.93	0.41	30.391
5-	0.77	0.43	30.396
6-	0.88	0.45	30.400
MEAN	0.84	0.48	30.395
S.D.	0.06	0.06	0.003

DATE: 21/05/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.49	0.47	0.18	0.74
	2-	1.50	0.45	0.22	0.88
	3-	1.56	0.44	0.19	0.88
	4-	1.36	0.45	0.20	0.95
	5-	1.39	0.43	0.18	0.98
	6-	-	0.44	0.18	0.88
	MEAN	1.46	0.45	0.19	0.88
	S.D.	0.08	0.01	0.02	0.08

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	190.9	38.4	0.29	0.08
	2-	194.0	36.9	0.32	0.05
	3-	182.8	35.4	0.34	0.06
	4-	174.7	36.2	0.32	0.05
	5-	172.9	34.9	0.35	0.04
	6-	164.2	34.4	0.24	0.04
	MEAN	179.9	36.0	0.31	0.05
	S.D.	11.4	1.5	0.04	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.61	0.26	30.329
	2-	0.72	0.39	30.328
	3-	0.85	0.36	30.325
	4-	0.93	0.24	30.327
	5-	0.91	0.28	30.323
	6-	0.91	0.30	30.325
	MEAN	0.82	0.31	30.326
	S.D.	0.13	0.06	0.002

DATE: 21/05/75
STATION: 3
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	1.39	0.44	0.13	0.64
2-	1.66	0.42	0.21	0.75
3-	1.51	0.43	0.22	0.63
4-	1.57	0.41	0.22	0.59
5-	1.47	0.41	0.23	0.69
6-	-	0.43	0.22	0.74
MEAN	1.52	0.42	0.21	0.67
S.D.	0.10	0.01	0.04	0.07

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	193.5	36.9	0.32	0.08
2-	198.0	38.9	0.35	0.12
3-	199.4	38.7	0.30	0.08
4-	170.5	34.1	0.32	0.06
5-	199.8	36.7	0.32	0.10
6-	158.4	33.6	0.27	0.09
MEAN	186.6	36.4	0.31	0.09
S.D.	17.7	2.5	0.03	0.02

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES 1-	0.74	0.32	30.289
2-	0.83	0.13	30.287
3-	0.85	0.21	30.285
4-	0.75	0.17	30.288
5-	0.88	0.13	30.297
6-	0.83	0.13	30.289
MEAN	0.81	0.18	30.289
S.D.	0.06	0.08	0.004

DATE: 21/05/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.13	0.53	0.10	0.79
	2-	2.35	0.52	0.26	0.84
	3-	1.93	0.53	0.16	0.90
	4-	1.63	0.56	0.18	1.00
	5-	2.18	0.59	0.16	0.88
	6-	1.77	0.61	0.17	0.98
	MEAN	2.00	0.56	0.17	0.90
	S.D.	0.27	0.04	0.05	0.08

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	181.9	34.1	0.38	0.12
	2-	237.6	38.7	0.27	0.13
	3-	197.5	36.9	0.38	0.15
	4-	181.8	38.4	0.30	0.13
	5-	190.3	36.2	0.30	0.14
	6-	199.8	40.0	0.30	-
	MEAN	198.2	37.4	0.32	0.13
	S.D.	20.8	2.1	0.05	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.75	0.47	30.483
	2-	0.80	0.56	30.487
	3-	0.67	0.51	30.488
	4-	0.53	0.56	30.488
	5-	0.72	0.54	30.487
	6-	0.56	0.56	30.487
	MEAN	0.67	0.53	30.487
	S.D.	0.11	0.04	0.002

DATE: 21/05/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.62	0.40	0.16	0.49
	2-	1.49	0.46	0.19	0.64
	3-	1.50	0.44	0.19	0.59
	4-	1.47	0.44	0.19	0.76
	5-	1.31	0.46	0.17	0.71
	6-	1.41	0.47	0.22	0.85
MEAN		1.47	0.45	0.19	0.67
S.D.		0.10	0.03	0.02	0.13

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	101.2	39.7	0.27	0.11
	2-	180.0	35.1	0.32	0.07
	3-	197.5	38.2	0.27	0.14
	4-	179.1	35.7	0.23	0.10
	5-	165.1	34.9	0.33	0.14
	6-	160.7	32.1	0.21	0.10
MEAN		163.9	36.0	0.27	0.11
S.D.		33.3	2.7	0.05	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.75	0.28	30.291
	2-	0.77	0.28	30.292
	3-	0.75	0.30	30.291
	4-	0.80	0.19	30.291
	5-	0.83	0.19	30.294
	6-	0.61	0.19	30.293
MEAN		0.75	0.24	30.292
S.D.		0.08	0.05	0.001

DATE: 21/05/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.31	0.43	0.13	0.65
	2-	1.35	0.40	0.16	0.61
	3-	1.37	0.42	0.18	0.68
	4-	1.23	0.44	0.19	0.60
	5-	1.01	0.46	0.16	0.74
	6-	-	0.47	0.20	0.60
	MEAN	1.25	0.44	0.17	0.65
	S.D.	0.15	0.03	0.03	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	158.7	31.4	0.24	0.13
	2-	149.0	30.6	0.36	0.07
	3-	146.1	29.3	0.31	0.07
	4-	140.0	28.8	0.28	0.09
	5-	155.1	31.1	0.27	0.09
	6-	185.9	34.4	0.26	0.08
	MEAN	155.8	30.9	0.29	0.09
	S.D.	16.2	2.0	0.04	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.59	0.24	30.405
	2-	0.72	0.32	30.405
	3-	0.45	0.26	30.411
	4-	0.61	0.28	30.405
	5-	0.77	0.32	30.405
	6-	0.53	0.26	30.404
	MEAN	0.61	0.28	30.406
	S.D.	0.12	0.03	0.003

DATE: 03/06/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.39	1.10	0.23	1.13
	2-	4.46	1.14	0.21	0.90
	3-	4.38	1.25	0.24	1.95
	4-	3.30	1.23	0.16	1.45
	5-	3.33	1.19	0.25	1.81
	6-	3.08	1.24	0.27	1.69
	MEAN	3.66	1.19	0.23	1.49
	S.D.	0.60	0.06	0.04	0.41

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	226.7	43.4	0.20	0.09
	2-	221.5	41.3	0.20	0.08
	3-	260.9	45.6	0.22	0.09
	4-	277.3	47.9	0.25	0.11
	5-	259.1	47.7	0.22	0.11
	6-	184.6	31.7	0.23	0.09
	MEAN	238.4	42.9	0.22	0.10
	S.D.	34.0	6.1	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.88	0.30	30.185
	2-	0.99	0.28	30.186
	3-	0.72	0.19	30.182
	4-	0.80	0.43	30.179
	5-	0.93	0.21	30.185
	6-	0.77	-	30.179
	MEAN	0.85	0.28	30.183
	S.D.	0.10	0.09	0.003

DATE: 03/06/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.33	1.20	0.23	0.93
	2-	2.92	1.21	0.25	0.98
	3-	4.06	1.23	0.19	0.96
	4-	3.08	1.23	0.26	1.04
	5-	3.18	1.13	0.26	0.90
	6-	-	1.13	0.25	0.98
	MEAN	3.11	1.19	0.24	0.96
	S.D.	0.62	0.05	0.03	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	259.1	46.4	0.24	0.09
	2-	230.5	43.9	0.21	0.09
	3-	233.9	42.8	0.26	0.11
	4-	259.4	53.0	0.24	0.09
	5-	215.9	41.1	0.25	0.09
	6-	208.9	40.8	0.26	0.09
	MEAN	234.6	44.7	0.24	0.09
	S.D.	21.2	4.6	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.67	0.24	30.171
	2-	0.83	0.17	30.171
	3-	0.88	0.19	30.172
	4-	0.83	0.21	30.171
	5-	0.48	0.21	30.174
	6-	0.83	0.26	30.176
	MEAN	0.75	0.21	30.173
	S.D.	0.15	0.03	0.002

DATE: 03/06/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.12	0.93	0.17	1.25
	2-	2.79	1.03	0.23	1.13
	3-	2.50	1.02	0.31	1.15
	4-	3.25	0.12	0.28	0.80
	5-	2.94	1.09	0.34	1.11
	6-	-	1.05	0.25	0.85
	MEAN	2.92	1.04	0.26	1.05
	S.D.	0.29	0.07	0.06	0.18

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	221.3	41.3	0.21	0.09
	2-	239.5	43.1	0.23	0.09
	3-	247.1	44.9	0.21	0.06
	4-	266.2	47.7	0.24	0.09
	5-	211.1	42.6	0.19	0.09
	6-	275.2	46.6	0.21	0.11
	MEAN	243.4	43.8	0.22	0.09
	S.D.	24.9	2.3	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.69	0.34	30.163
	2-	0.80	0.15	30.160
	3-	0.83	0.13	30.162
	4-	0.85	0.13	30.162
	5-	0.85	0.11	30.162
	6-	0.72	0.15	30.162
	MEAN	0.79	0.17	30.162
	S.D.	0.07	0.09	0.001

DATE: 03/06/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.31	1.18	0.20	1.73
	2-	2.83	1.16	0.24	1.85
	3-	4.35	1.18	0.23	1.55
	4-	3.63	1.26	0.27	1.31
	5-	3.10	1.17	0.27	1.41
	6-	-	1.18	0.29	1.41
	MEAN	3.64	1.19	0.25	1.54
	S.D.	0.69	0.04	0.03	0.21

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	295.7	50.4	0.24	0.10
	2-	275.2	50.7	0.28	0.14
	3-	265.1	48.9	0.26	0.13
	4-	251.8	50.7	0.25	0.12
	5-	286.7	52.2	0.29	0.09
	6-	233.8	46.4	0.28	0.09
	MEAN	268.1	49.9	0.27	0.11
	S.D.	22.8	2.0	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.59	0.39	30.191
	2-	0.59	0.26	30.191
	3-	0.61	0.28	30.192
	4-	0.64	0.24	30.190
	5-	0.56	0.28	30.191
	6-	0.48	0.30	30.192
	MEAN	0.58	0.29	30.191
	S.D.	0.06	0.05	0.001

DATE: 03/06/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.73	1.18	0.19	1.24
	2-	2.94	1.25	0.16	1.29
	3-	3.29	1.22	0.14	0.95
	4-	3.17	1.23	0.24	1.05
	5-	2.73	1.10	0.21	1.11
	6-	3.47	1.19	0.17	0.89
	MEAN	3.06	1.20	0.19	1.09
	S.D.	0.31	0.05	0.04	0.16

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	239.9	45.4	0.22	0.07
	2-	232.0	43.6	0.23	0.07
	3-	243.5	45.9	0.23	0.06
	4-	262.6	47.4	0.21	0.07
	5-	227.3	44.6	0.23	0.07
	6-	235.6	44.4	0.23	0.06
	MEAN	240.2	45.2	0.23	0.07
	S.D.	12.4	1.3	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.85	0.41	30.126
	2-	0.96	0.30	30.122
	3-	0.85	0.28	30.120
	4-	0.88	0.19	30.116
	5-	1.04	0.19	30.125
	6-	0.91	0.19	30.126
	MEAN	0.92	0.26	30.123
	S.D.	0.07	0.09	0.004

DATE: 03/06/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.75	1.07	0.31	0.74
	2-	2.46	0.98	0.25	0.91
	3-	2.74	0.92	0.36	0.74
	4-	2.81	0.94	0.33	0.83
	5-	2.82	0.94	0.33	1.03
	6-	-	1.00	0.35	0.99
	MEAN	2.72	0.98	0.32	0.87
	S.D.	0.15	0.06	0.04	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	202.1	41.1	0.23	0.06
	2-	208.6	41.6	0.26	0.06
	3-	212.9	42.3	0.25	0.09
	4-	241.0	46.1	0.28	0.07
	5-	250.7	44.9	0.23	0.07
	6-	212.2	42.1	0.21	0.06
	MEAN	221.3	43.0	0.24	0.07
	S.D.	19.7	2.0	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.15	0.28	30.062
	2-	0.91	0.19	30.058
	3-	1.12	0.56	30.060
	4-	1.17	0.30	30.058
	5-	1.15	0.21	30.058
	6-	0.96	-	30.057
	MEAN	1.08	0.31	30.059
	S.D.	0.11	0.15	0.002

DATE: 11/06/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.64	1.38	0.64	1.13
	2-	2.64	1.34	0.63	1.76
	3-	3.06	1.42	0.80	1.29
	4-	2.97	1.52	0.70	1.21
	5-	2.72	1.52	0.76	1.49
	6-	-	1.42	0.68	0.98
MEAN		2.81	1.43	0.70	1.31
S.D.		0.20	0.07	0.07	0.28

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	219.9	30.8	0.23	0.04
	2-	235.7	29.8	0.22	0.07
	3-	200.0	28.6	0.24	0.06
	4-	181.9	23.1	0.23	0.03
	5-	241.0	34.0	0.25	0.04
	6-	172.3	23.8	0.24	0.04
MEAN		208.5	28.4	0.24	0.05
S.D.		28.3	4.2	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.61	0.06	29.970
	2-	0.91	0.19	29.967
	3-	0.88	0.15	29.973
	4-	0.83	0.15	29.971
	5-	0.77	0.09	29.974
	6-	-	-	29.973
MEAN		0.80	0.13	29.971
S.D.		0.12	0.05	0.003

DATE: 11/06/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.71	1.36	0.56	1.25
	2-	3.61	1.41	0.58	1.43
	3-	3.15	1.34	0.57	1.36
	4-	3.91	1.49	0.67	1.35
	5-	3.34	1.44	0.72	1.51
	6-	-	1.42	0.53	1.04
	MEAN	3.54	1.41	0.61	1.32
	S.D.	0.30	0.05	0.07	0.17

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	219.8	33.4	0.25	0.05
	2-	169.2	25.1	0.24	0.04
	3-	216.9	31.6	0.23	0.04
	4-	188.1	27.8	0.25	0.03
	5-	212.3	32.9	0.29	0.02
	6-	234.1	33.9	0.22	0.03
	MEAN	206.7	30.8	0.25	0.04
	S.D.	23.7	3.6	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.75	0.17	29.987
	2-	0.59	0.17	29.986
	3-	0.64	0.15	29.986
	4-	0.83	0.15	29.987
	5-	0.77	0.17	29.986
	6-	0.64	0.15	29.993
	MEAN	0.70	0.16	29.988
	S.D.	0.09	0.01	0.003

DATE: 11/06/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.28	1.23	0.57	0.85
	2-	2.80	1.26	0.57	0.75
	3-	3.27	1.21	0.62	0.75
	4-	2.80	1.18	0.68	0.74
	5-	2.83	1.18	0.54	1.03
	6-	-	1.12	0.75	0.71
	MEAN	3.00	1.20	0.62	0.81
	S.D.	0.26	0.05	0.08	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	181.7	26.1	0.23	0.05
	2-	168.8	21.6	0.23	0.05
	3-	126.6	20.1	0.22	0.07
	4-	151.4	24.6	0.24	0.05
	5-	152.0	22.9	0.23	0.04
	6-	159.2	23.6	0.21	0.04
	MEAN	156.6	23.2	0.23	0.05
	S.D.	18.7	2.1	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.61	0.32	30.014
	2-	0.53	0.24	30.007
	3-	0.72	0.19	30.021
	4-	0.67	0.21	30.007
	5-	0.56	0.21	30.022
	6-	0.64	0.26	30.019
	MEAN	0.62	0.24	30.015
	S.D.	0.07	0.05	0.007

DATE: 11/06/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.25	1.29	0.55	1.40
	2-	2.91	1.34	0.55	1.25
	3-	3.10	1.25	0.65	1.10
	4-	2.97	1.18	0.62	1.13
	5-	2.60	1.27	0.59	1.61
	6-	2.72	1.33	0.71	1.40
	MEAN	2.93	1.28	0.61	1.32
	S.D.	0.24	0.06	0.06	0.19

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	205.4	32.5	0.27	0.03
	2-	211.1	33.2	0.21	0.05
	3-	194.6	30.3	0.24	0.03
	4-	177.6	28.1	0.25	0.01
	5-	169.5	25.7	0.24	0.03
	6-	198.6	29.7	0.27	0.02
	MEAN	192.8	29.9	0.25	0.03
	S.D.	16.2	2.8	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.53	0.21	30.012
	2-	0.67	0.19	30.012
	3-	0.61	0.19	30.019
	4-	0.72	0.19	30.011
	5-	0.56	0.19	30.012
	6-	0.59	0.19	29.991
	MEAN	0.61	0.19	30.010
	S.D.	0.07	0.01	0.010

DATE: 11/06/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.38	1.50	0.66	1.23
	2-	3.48	1.37	0.55	1.68
	3-	3.16	1.52	0.58	1.28
	4-	3.32	1.57	0.59	1.64
	5-	3.24	1.56	0.73	1.54
	6-	-	1.51	0.55	0.91
	MEAN	3.32	1.51	0.61	1.38
	S.D.	0.12	0.07	0.07	0.29

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	186.0	29.5	0.24	0.03
	2-	242.2	36.7	0.24	0.02
	3-	181.0	29.2	0.24	0.03
	4-	193.7	31.0	0.22	0.03
	5-	221.8	34.0	0.22	0.02
	6-	197.9	31.4	0.25	0.02
	MEAN	203.8	32.0	0.24	0.03
	S.D.	23.6	2.9	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.48	0.17	29.989
	2-	0.56	0.11	29.988
	3-	0.59	0.11	29.981
	4-	0.59	0.15	29.997
	5-	0.72	0.15	29.987
	6-	0.61	0.09	29.987
	MEAN	0.59	0.13	29.988
	S.D.	0.08	0.03	0.005

DATE: 11/06/75
STATION: 6
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	3.23	1.50	0.56	0.86
2-	3.82	1.50	0.56	0.96
3-	3.43	1.42	0.58	1.35
4-	1.85	1.49	0.55	1.16
5-	2.88	1.47	0.57	1.19
6-	-	1.39	0.78	0.90
MEAN	3.04	1.46	0.60	1.07
S.D.	0.75	0.05	0.09	0.19

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	174.3	25.3	0.23	0.03
2-	171.9	25.9	0.22	0.03
3-	175.2	25.4	0.23	0.02
4-	184.5	26.9	0.28	0.01
5-	173.1	25.4	0.24	0.02
6-	166.2	24.5	0.28	0.01
MEAN	174.2	25.6	0.25	0.02
S.D.	6.0	0.8	0.03	0.01

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES 1-	0.48	0.26	30.004
2-	0.48	0.13	30.024
3-	0.48	0.19	30.010
4-	0.72	0.15	30.003
5-	0.72	0.17	30.003
6-	0.56	0.13	30.004
MEAN	0.57	0.17	30.008
S.D.	0.12	0.05	0.008

DATE: 17/06/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.64	1.00	0.32	0.61
	2-	2.34	1.09	0.34	0.58
	3-	2.98	1.08	0.31	0.61
	4-	2.72	1.04	0.30	0.79
	5-	2.37	1.00	0.36	0.81
	6-	-	0.98	0.32	0.83
	MEAN	2.61	1.03	0.33	0.71
	S.D.	0.26	0.05	0.02	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	194.3	23.5	0.26	0.03
	2-	177.2	22.6	0.24	0.04
	3-	148.4	20.0	0.22	0.01
	4-	154.4	21.4	0.24	0.00
	5-	135.3	18.7	0.24	0.03
	6-	149.0	18.8	0.24	0.01
	MEAN	159.8	20.8	0.24	0.02
	S.D.	21.8	2.0	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.75	0.04	29.939
	2-	0.80	0.11	29.938
	3-	0.93	0.04	29.937
	4-	0.91	0.11	29.937
	5-	0.80	0.06	29.930
	6-	0.69	-	29.933
	MEAN	0.81	0.07	29.935
	S.D.	0.09	0.04	0.003

DATE: 17/06/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.83	1.09	0.31	0.70
	2-	2.69	1.17	0.31	0.73
	3-	2.64	1.15	0.30	0.69
	4-	2.66	1.06	0.33	0.79
	5-	2.94	1.11	0.28	1.38
	6-	-	1.06	0.37	0.78
	MEAN	2.75	1.11	0.32	0.84
	S.D.	0.13	0.05	0.03	0.27

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	166.1	21.1	0.25	0.02
	2-	230.1	22.4	0.25	0.02
	3-	216.2	24.1	0.25	0.03
	4-	215.4	24.6	0.24	0.01
	5-	176.0	22.7	0.25	0.01
	6-	163.0	21.1	0.24	0.00
	MEAN	194.5	22.7	0.25	0.02
	S.D.	29.4	1.5	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.99	0.06	29.913
	2-	0.88	0.19	29.913
	3-	0.99	0.17	29.915
	4-	0.96	0.15	29.910
	5-	0.91	-	29.913
	6-	0.83	-	29.910
	MEAN	0.93	0.14	29.912
	S.D.	0.07	0.06	0.002

DATE: 17/06/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.74	0.85	0.17	0.50
	2-	2.43	0.83	0.37	0.48
	3-	1.79	0.85	0.30	0.61
	4-	2.41	0.85	0.29	0.45
	5-	2.42	0.86	0.37	0.49
	6-	-	0.76	0.30	0.58
	MEAN	2.36	0.83	0.30	0.52
	S.D.	0.35	0.04	0.07	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	139.6	19.2	0.23	0.03
	2-	169.9	23.7	0.21	0.05
	3-	112.7	15.9	0.21	0.02
	4-	114.9	15.9	0.21	0.02
	5-	115.0	16.0	0.22	0.06
	6-	153.1	19.1	0.20	0.02
	MEAN	134.2	18.3	0.21	0.03
	S.D.	23.9	3.1	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.88	0.28	29.868
	2-	0.96	0.04	29.868
	3-	1.01	0.11	29.869
	4-	0.80	0.06	29.869
	5-	0.99	0.06	29.869
	6-	0.96	-	29.869
	MEAN	0.93	0.10	29.869
	S.D.	0.08	0.09	0.005

DATE: 17/06/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.82	0.87	0.27	0.71
	2-	2.65	0.79	0.24	0.59
	3-	2.39	0.81	0.29	0.64
	4-	2.48	0.82	0.36	0.76
	5-	2.30	0.83	0.35	0.64
	6-	2.30	0.81	0.32	0.64
	MEAN	2.49	0.82	0.31	0.66
	S.D.	0.21	0.03	0.05	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	140.8	19.7	0.23	0.00
	2-	144.4	18.1	0.23	0.01
	3-	157.6	19.1	0.25	0.02
	4-	212.8	22.2	0.24	0.02
	5-	116.3	15.4	0.21	0.01
	6-	-	-	0.21	0.00
	MEAN	154.4	19.1	0.23	0.01
	S.D.	35.9	2.5	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.04	0.02	29.919
	2-	0.91	0.00	29.917
	3-	1.09	0.09	29.916
	4-	0.77	0.00	29.916
	5-	0.96	0.09	29.916
	6-	1.07	-	29.919
	MEAN	0.97	0.04	29.917
	S.D.	0.12	0.05	0.002

DATE: 17/06/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.59	1.24	0.16	0.75
	2-	3.48	1.14	0.21	0.74
	3-	3.13	1.20	0.16	0.69
	4-	3.49	1.23	0.21	0.71
	5-	3.61	1.16	0.24	0.76
	6-	3.45	1.23	0.19	0.76
	MEAN	3.46	1.20	0.20	0.74
	S.D.	0.17	0.04	0.03	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	146.9	20.8	0.20	0.01
	2-	158.2	22.2	0.19	0.02
	3-	186.9	25.8	0.20	0.01
	4-	162.4	22.9	0.21	0.02
	5-	147.6	20.9	0.19	0.04
	6-	183.7	22.0	0.21	0.00
	MEAN	164.3	22.4	0.20	0.02
	S.D.	17.4	1.8	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.80	0.21	29.849
	2-	1.04	0.17	29.842
	3-	0.93	0.21	29.841
	4-	0.93	0.06	29.843
	5-	1.09	0.09	29.844
	6-	0.99	0.13	29.844
	MEAN	0.96	0.15	29.844
	S.D.	0.10	0.06	0.003

DATE: 17/06/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.85	1.32	0.29	0.51
	2-	3.18	1.21	0.40	0.60
	3-	3.05	1.32	0.29	0.44
	4-	3.24	1.33	0.29	0.73
	5-	3.25	1.24	0.33	0.80
	6-	3.22	1.27	0.30	0.56
	MEAN	3.13	1.28	0.32	0.61
	S.D.	0.16	0.05	0.04	0.14

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	141.4	20.7	0.23	0.00
	2-	146.0	19.0	0.20	0.00
	3-	188.1	27.6	0.21	0.05
	4-	180.2	24.2	0.21	0.01
	5-	172.5	24.5	0.22	0.00
	6-	270.1	24.4	0.22	0.00
	MEAN	183.1	23.4	0.22	0.01
	S.D.	46.5	3.1	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.20	0.13	29.849
	2-	0.85	0.06	29.853
	3-	1.12	0.04	29.849
	4-	1.15	0.06	29.849
	5-	1.04	-	29.847
	6-	1.17	-	29.848
	MEAN	1.09	0.07	29.849
	S.D.	0.13	0.04	0.002

DATE: 02/07/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.67	0.42	0.23	0.35
	2-	2.50	0.46	0.22	0.46
	3-	2.56	0.44	0.25	0.46
	4-	2.32	0.49	0.23	0.51
	5-	2.45	0.44	0.21	0.50
	6-	-	0.42	0.23	0.49
	MEAN	2.50	0.45	0.23	0.46
	S.D.	0.13	0.03	0.01	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	105.3	16.3	0.28	0.13
	2-	101.8	12.8	0.31	0.11
	3-	106.1	12.1	0.30	0.09
	4-	148.4	16.7	0.29	0.08
	5-	139.6	15.6	0.30	0.10
	6-	113.4	14.2	0.31	0.09
	MEAN	119.1	14.6	0.30	0.10
	S.D.	19.9	1.9	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.39	0.49	30.654
	2-	1.04	0.30	30.652
	3-	1.09	0.34	30.653
	4-	1.52	0.26	30.650
	5-	1.25	0.21	30.648
	6-	1.36	0.36	30.653
	MEAN	1.28	0.33	30.652
	S.D.	0.19	0.10	0.002

DATE: 02/07/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.22	0.40	0.22	0.46
	2-	2.18	0.42	0.21	0.55
	3-	2.05	0.37	0.22	0.50
	4-	2.19	0.37	0.23	0.45
	5-	2.05	0.38	0.23	0.41
	6-	-	0.37	0.22	0.46
	MEAN	2.14	0.39	0.22	0.47
	S.D.	0.08	0.02	0.01	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	125.2	14.5	0.26	0.02
	2-	104.3	12.6	0.26	0.03
	3-	125.1	16.5	0.28	0.01
	4-	144.6	14.8	0.25	0.02
	5-	151.4	16.0	0.30	0.03
	6-	167.5	19.4	0.27	0.02
	MEAN	136.4	15.6	0.27	0.02
	S.D.	22.6	2.3	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.88	0.36	30.503
	2-	1.01	0.26	30.501
	3-	1.07	0.30	30.501
	4-	0.91	0.41	30.507
	5-	1.12	0.32	30.508
	6-	1.09	0.24	30.505
	MEAN	1.01	0.32	30.504
	S.D.	0.10	0.06	0.003

DATE: 02/07/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.14	0.42	0.24	0.46
	2-	2.39	0.44	0.25	0.38
	3-	2.47	0.44	0.35	0.35
	4-	-	0.45	0.27	0.49
	5-	-	0.46	0.22	0.56
	6-	-	0.45	0.28	-
	MEAN	2.33	0.44	0.27	0.45
	S.D.	0.17	0.01	0.05	0.09

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	157.9	11.5	0.24	0.09
	2-	94.5	11.4	0.23	0.07
	3-	112.5	13.5	0.23	0.05
	4-	127.4	15.3	0.24	0.05
	5-	141.4	17.7	0.24	0.05
	6-	189.6	22.0	0.25	0.06
	MEAN	137.2	15.2	0.24	0.06
	S.D.	33.8	4.1	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.09	0.26	30.390
	2-	0.75	0.28	30.390
	3-	0.83	0.30	30.381
	4-	0.83	0.21	30.380
	5-	0.77	0.19	30.389
	6-	0.93	0.30	30.382
	MEAN	0.87	0.26	30.385
	S.D.	0.13	0.05	0.005

DATE: 02/07/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.31	0.45	0.27	0.50
	2-	2.49	0.44	0.20	0.44
	3-	2.41	0.44	0.21	0.43
	4-	2.36	0.44	0.28	0.44
	5-	-	0.46	0.24	0.43
	6-	-	0.44	0.21	0.53
	MEAN	2.39	0.45	0.24	0.46
	S.D.	0.08	0.01	0.03	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	117.7	10.7	0.31	0.03
	2-	104.7	15.8	0.29	0.04
	3-	133.0	11.3	0.28	0.02
	4-	155.5	20.5	0.32	0.04
	5-	139.7	12.4	0.30	0.04
	6-	138.3	16.9	0.35	0.03
	MEAN	131.5	14.6	0.31	0.03
	S.D.	17.9	3.8	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.23	0.24	30.635
	2-	1.17	0.19	30.629
	3-	1.09	0.32	30.629
	4-	0.72	0.24	30.626
	5-	0.69	0.28	30.629
	6-	1.28	0.24	30.633
	MEAN	1.03	0.25	30.630
	S.D.	0.26	0.04	0.003

DATE: 02/07/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.79	0.45	0.28	0.55
	2-	2.75	0.44	0.28	0.36
	3-	2.79	0.44	0.23	0.40
	4-	2.81	0.45	0.22	0.44
	5-	2.91	0.44	0.23	0.38
	6-	-	0.42	0.28	0.55
	MEAN	2.81	0.44	0.25	0.45
	S.D.	0.06	0.01	0.03	0.08

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	113.6	14.2	0.32	0.07
	2-	91.3	11.9	0.32	0.06
	3-	134.8	17.3	0.34	0.02
	4-	174.1	26.4	0.37	0.03
	5-	132.6	13.6	0.30	0.03
	6-	110.2	14.9	0.34	0.04
	MEAN	126.1	16.4	0.33	0.04
	S.D.	28.4	5.2	0.02	0.04

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.41	0.62	30.505
	2-	1.17	0.49	30.452
	3-	1.20	0.41	30.443
	4-	1.17	0.36	30.462
	5-	1.44	0.56	30.444
	6-	1.36	0.49	30.495
	MEAN	1.29	0.49	30.467
	S.D.	0.13	0.10	0.027

DATE: 02/07/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.28	0.46	0.29	0.35
	2-	2.22	0.42	0.26	0.39
	3-	2.41	0.38	0.22	0.71
	4-	2.20	0.38	0.25	0.66
	5-	1.99	0.45	0.25	0.58
	6-	2.15	0.42	0.24	0.38
	MEAN	2.21	0.42	0.25	0.51
	S.D.	0.14	0.03	0.02	0.16

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	109.9	11.7	0.26	0.01
	2-	149.0	17.8	0.28	0.07
	3-	109.3	14.2	0.27	0.00
	4-	110.8	13.6	0.26	0.01
	5-	117.0	13.6	0.30	0.02
	6-	106.6	12.2	0.33	0.01
	MEAN	117.1	13.9	0.28	0.02
	S.D.	16.0	2.2	0.03	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.09	0.28	30.563
	2-	0.72	0.32	30.558
	3-	0.88	0.36	30.557
	4-	0.72	0.21	30.555
	5-	0.83	0.36	30.557
	6-	0.75	0.26	30.562
	MEAN	0.83	0.30	30.559
	S.D.	0.14	0.06	0.003

DATE: 16/07/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.70	0.65	0.23	0.51
	2-	3.38	0.70	0.20	0.61
	3-	3.40	0.70	0.19	0.50
	4-	3.01	0.68	0.21	0.48
	5-	3.01	0.68	0.22	0.49
	6-	2.75	0.70	0.20	0.51
	MEAN	3.21	0.69	0.21	0.52
	S.D.	0.35	0.02	0.01	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	140.0	16.5	0.24	0.19
	2-	149.6	18.0	0.26	0.14
	3-	165.5	18.5	0.27	0.18
	4-	177.6	19.7	0.29	0.15
	5-	143.1	17.4	0.25	0.12
	6-	136.6	16.3	0.26	0.11
	MEAN	152.1	17.7	0.26	0.15
	S.D.	16.2	1.3	0.02	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.01	0.26	30.383
	2-	1.04	0.11	30.404
	3-	0.88	0.06	30.396
	4-	0.85	0.21	30.403
	5-	1.01	0.19	30.403
	6-	1.20	0.02	30.398
	MEAN	1.00	0.14	30.398
	S.D.	0.13	0.09	0.008

DATE: 16/07/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.09	0.73	0.23	0.53
	2-	2.74	0.72	0.21	0.50
	3-	2.19	0.70	0.24	0.48
	4-	2.46	0.68	0.25	0.55
	5-	2.18	0.72	0.23	0.55
	6-	1.95	0.74	0.23	0.48
	MEAN	2.27	0.72	0.23	0.51
	S.D.	0.29	0.02	0.01	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	131.6	17.4	0.27	0.14
	2-	142.3	14.3	0.29	0.09
	3-	127.6	16.0	0.26	0.08
	4-	131.9	15.0	0.23	0.15
	5-	138.6	18.5	0.26	0.15
	6-	150.9	17.4	0.28	0.14
	MEAN	137.2	16.4	0.27	0.13
	S.D.	8.6	1.6	0.02	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.96	0.09	30.365
	2-	0.72	0.09	30.369
	3-	0.96	0.06	30.363
	4-	1.01	-	30.361
	5-	1.01	-	30.360
	6-	0.91	-	30.361
	MEAN	0.93	0.08	30.363
	S.D.	0.11	0.02	0.003

DATE: 16/07/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.86	0.52	0.11	0.43
	2-	1.99	0.53	0.12	0.58
	3-	1.91	0.53	0.12	0.45
	4-	1.94	0.59	0.11	0.46
	5-	1.85	0.53	0.08	0.40
	6-	-	0.53	0.12	0.44
	MEAN	1.91	0.54	0.11	0.46
	S.D.	0.06	0.03	0.02	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	124.9	17.2	0.29	0.07
	2-	131.7	17.0	0.24	0.08
	3-	185.3	22.0	0.25	0.23
	4-	153.4	18.7	0.22	0.23
	5-	221.7	22.4	0.18	0.22
	6-	141.2	19.7	0.25	0.19
	MEAN	159.7	19.5	0.24	0.16
	S.D.	37.1	2.3	0.04	0.08

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.09	0.04	30.321
	2-	1.09	0.00	30.320
	3-	1.07	0.06	30.318
	4-	0.83	0.11	30.321
	5-	0.99	0.24	30.316
	6-	0.91	-	30.316
	MEAN	1.00	0.09	30.319
	S.D.	0.11	0.03	0.002

DATE: 16/07/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.18	0.68	0.15	0.45
	2-	2.68	0.59	0.18	0.45
	3-	2.64	0.68	0.15	0.50
	4-	2.06	0.65	0.16	0.50
	5-	2.12	0.62	0.17	0.59
	6-	-	0.62	0.16	0.54
	MEAN	2.34	0.64	0.16	0.50
	S.D.	0.30	0.04	0.01	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	117.7	14.7	0.23	0.11
	2-	136.2	15.9	0.26	0.08
	3-	137.6	17.2	0.23	0.12
	4-	133.6	15.3	0.22	0.13
	5-	120.7	15.3	0.28	0.11
	6-	266.2	21.0	0.22	0.11
	MEAN	129.2	16.6	0.24	0.11
	S.D.	9.3	2.3	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.91	0.09	30.295
	2-	0.91	0.26	30.293
	3-	0.99	0.21	30.290
	4-	0.88	0.15	30.297
	5-	0.91	0.09	30.293
	6-	0.93	0.11	30.293
	MEAN	0.92	0.15	30.294
	S.D.	0.04	0.07	0.002

DATE: 16/07/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.43	0.61	0.18	0.56
	2-	2.45	0.65	0.21	0.51
	3-	2.96	0.64	0.23	0.45
	4-	1.90	0.67	0.18	0.56
	5-	2.31	0.61	0.17	0.49
	6-	-	0.67	0.23	0.50
	MEAN	2.41	0.64	0.20	0.51
	S.D.	0.38	0.03	0.03	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	109.9	14.5	0.27	0.12
	2-	114.0	15.5	0.26	0.07
	3-	116.4	15.2	0.30	0.05
	4-	196.2	17.5	0.28	0.11
	5-	154.6	19.7	0.31	0.09
	6-	115.0	15.3	0.29	-
	MEAN	134.4	16.3	0.29	0.09
	S.D.	34.5	2.0	0.02	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.96	0.06	30.309
	2-	0.91	0.04	30.312
	3-	0.85	0.02	30.305
	4-	0.85	0.19	30.323
	5-	0.83	0.15	30.322
	6-	0.88	0.26	30.312
	MEAN	0.88	0.12	30.314
	S.D.	0.05	0.10	0.007

DATE: 16/07/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.45	0.61	0.23	0.44
	2-	3.13	0.64	0.14	0.55
	3-	2.53	0.66	0.20	0.51
	4-	2.47	0.67	0.22	0.51
	5-	2.63	0.69	0.21	0.45
	6-	-	0.70	0.20	0.58
	MEAN	2.64	0.66	0.20	0.51
	S.D.	0.28	0.03	0.03	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	187.2	26.1	0.28	0.13
	2-	156.1	18.8	0.26	0.09
	3-	170.9	20.7	0.24	0.14
	4-	140.6	17.7	0.29	0.23
	5-	125.2	15.4	0.23	0.11
	6-	125.0	15.2	0.26	0.09
	MEAN	150.8	19.0	0.26	0.13
	S.D.	25.2	4.1	0.02	0.05

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.75	0.26	30.348
	2-	1.04	0.28	30.348
	3-	0.77	0.43	30.347
	4-	0.88	0.19	30.347
	5-	0.83	0.21	30.346
	6-	-	0.41	30.351
	MEAN	0.85	0.30	30.348
	S.D.	0.12	0.10	0.002

DATE: 23/07/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.83	0.66	0.14	0.44
	2-	1.89	0.71	0.16	0.49
	3-	1.93	0.64	0.14	0.50
	4-	1.95	0.64	0.16	0.51
	5-	2.13	0.63	0.13	0.50
	6-	1.88	0.58	0.15	-
	MEAN	1.94	0.64	0.15	0.49
	S.D.	0.10	0.04	0.01	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	143.0	15.7	0.25	0.09
	2-	181.0	19.2	0.26	0.07
	3-	169.6	19.0	0.27	0.09
	4-	167.6	15.1	0.27	0.08
	5-	140.7	15.0	0.27	0.08
	6-	-	-	0.31	0.10
	MEAN	160.4	16.8	0.27	0.09
	S.D.	17.7	2.1	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.20	0.36	30.561
	2-	1.07	0.13	30.562
	3-	1.09	0.30	30.567
	4-	1.09	0.17	30.566
	5-	1.01	0.15	30.571
	6-	1.15	0.21	30.568
	MEAN	1.10	0.22	30.566
	S.D.	0.07	0.09	0.004

DATE: 23/07/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.86	0.62	0.14	0.41
	2-	1.92	0.62	0.12	0.44
	3-	1.93	0.64	0.13	0.45
	4-	1.95	0.63	0.12	0.43
	5-	1.99	0.60	0.12	0.46
	6-	2.02	0.67	0.12	0.41
	MEAN	1.95	0.63	0.13	0.43
	S.D.	0.06	0.02	0.01	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	127.7	13.7	0.39	0.07
	2-	124.6	15.2	0.34	0.08
	3-	151.2	17.6	0.36	0.08
	4-	119.8	14.1	0.40	0.08
	5-	109.5	13.4	0.37	0.08
	6-	110.1	12.1	0.36	0.08
	MEAN	123.8	14.4	0.37	0.08
	S.D.	15.3	1.9	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	0.99	0.09	30.842
	2-	1.15	0.09	30.846
	3-	0.99	0.21	30.842
	4-	1.17	0.13	30.844
	5-	1.09	0.13	30.843
	6-	0.93	0.24	30.847
	MEAN	1.05	0.15	30.844
	S.D.	0.10	0.06	0.002

DATE: 23/07/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.69	0.67	0.13	0.61
	2-	1.63	0.65	0.11	0.43
	3-	1.76	0.68	0.13	0.53
	4-	1.72	0.67	0.10	0.55
	5-	1.78	0.68	0.10	0.53
	6-	-	0.64	0.12	0.55
	MEAN	1.72	0.67	0.12	0.53
	S.D.	0.06	0.02	0.01	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	135.0	16.5	0.22	0.06
	2-	144.1	18.2	0.26	0.07
	3-	117.8	13.5	0.23	0.08
	4-	109.9	16.3	0.26	0.07
	5-	104.4	13.3	0.24	0.08
	6-	132.5	17.4	0.30	0.09
	MEAN	123.8	15.9	0.25	0.08
	S.D.	15.7	2.0	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.88	0.24	30.613
	2-	0.93	0.30	30.624
	3-	0.99	0.26	30.614
	4-	0.96	0.28	30.620
	5-	0.96	0.28	30.615
	6-	0.91	0.30	-
	MEAN	0.94	0.28	30.617
	S.D.	0.04	0.02	0.005

DATE: 23/07/75
STATION: 4
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	1.65	0.65	0.13	0.50
2-	2.49	0.67	0.13	0.45
3-	2.32	0.62	0.15	0.51
4-	1.99	0.65	0.15	0.48
5-	1.94	0.67	0.15	0.46
6-	1.95	0.63	0.15	0.44
MEAN	2.06	0.65	0.14	0.47
S.D.	0.30	0.02	0.01	0.03

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	132.7	15.8	0.30	0.08
2-	127.8	14.7	0.32	0.08
3-	85.8	10.6	0.35	0.08
4-	101.1	12.0	0.35	0.09
5-	97.3	11.6	0.30	0.09
6-	101.9	12.0	0.31	0.08
MEAN	107.8	12.8	0.32	0.08
S.D.	18.4	2.0	0.02	0.01

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES 1-	1.04	0.15	30.810
2-	1.17	0.13	30.812
3-	1.31	0.26	30.805
4-	1.23	0.19	30.806
5-	1.20	0.26	30.806
6-	1.31	0.30	30.806
MEAN	1.21	0.22	30.808
S.D.	0.10	0.07	0.003

DATE: 23/07/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.18	0.68	0.12	0.45
	2-	2.11	0.65	0.12	0.39
	3-	2.60	0.66	0.14	0.48
	4-	2.33	0.62	0.11	0.41
	5-	2.27	0.67	0.12	0.45
	6-	2.29	0.60	0.12	0.50
	MEAN	2.30	0.65	0.12	0.45
	S.D.	0.17	0.03	0.01	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	143.6	18.8	0.32	0.08
	2-	140.2	19.2	0.32	0.08
	3-	108.7	14.0	0.31	0.06
	4-	112.0	13.6	0.36	0.07
	5-	95.9	12.6	0.30	0.09
	6-	89.3	11.5	0.34	0.08
	MEAN	115.0	15.0	0.33	0.08
	S.D.	22.5	3.3	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.01	0.28	30.785
	2-	1.20	0.30	30.784
	3-	1.07	0.34	30.779
	4-	1.04	0.34	30.783
	5-	1.12	0.34	30.771
	6-	1.09	-	30.766
	MEAN	1.09	0.32	30.778
	S.D.	0.07	0.03	0.008

DATE: 23/07/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.07	0.57	0.09	0.43
	2-	1.93	0.63	0.09	0.48
	3-	1.90	0.68	0.12	0.48
	4-	2.03	0.68	0.12	0.45
	5-	1.98	0.68	0.05	0.43
	6-	2.01	0.67	0.10	0.48
	MEAN	1.99	0.65	0.09	0.46
	S.D.	0.06	0.04	0.03	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	106.7	13.1	0.23	0.07
	2-	113.8	13.5	0.23	0.07
	3-	119.5	13.5	0.29	0.08
	4-	125.7	18.6	0.31	0.08
	5-	120.6	14.7	0.24	0.08
	6-	109.7	13.0	0.29	0.08
	MEAN	116.0	14.4	0.27	0.08
	S.D.	7.2	2.2	0.04	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.83	0.17	30.551
	2-	1.01	0.15	30.537
	3-	0.88	0.26	30.553
	4-	0.93	0.19	30.548
	5-	1.01	0.17	30.552
	6-	0.96	0.36	30.547
	MEAN	0.94	0.22	30.548
	S.D.	0.07	0.08	0.006

DATE: 07/08/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.73	0.22	0.14	0.38
	2-	1.93	0.21	0.17	0.38
	3-	1.84	0.22	0.16	0.40
	4-	1.79	0.21	0.15	0.54
	5-	1.64	0.22	0.14	0.43
	6-	-	0.19	0.14	0.43
	MEAN	1.79	0.21	0.15	0.42
	S.D.	0.11	0.01	0.01	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	198.6	20.7	0.40	0.06
	2-	166.2	21.0	0.36	0.06
	3-	175.1	19.2	0.34	0.09
	4-	206.2	26.6	0.38	0.05
	5-	188.6	24.5	2.37	0.05
	6-	165.6	21.2	0.37	0.05
	MEAN	183.4	22.2	0.37	0.06
	S.D.	17.1	2.8	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.09	0.24	30.998
	2-	1.15	0.11	31.001
	3-	1.25	0.06	30.991
	4-	1.25	0.15	30.991
	5-	1.23	0.13	30.991
	6-	1.12	0.06	30.989
	MEAN	1.18	0.13	30.994
	S.D.	0.07	0.07	0.005

DATE: 07/08/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.69	0.21	0.18	0.39
	2-	1.74	0.23	0.16	0.48
	3-	1.79	0.24	0.14	0.44
	4-	1.78	0.21	0.18	0.38
	5-	1.65	0.21	0.15	0.54
	6-	-	0.22	0.17	0.50
	MEAN	1.73	0.22	0.16	0.45
	S.D.	0.06	0.01	0.02	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	168.1	20.2	0.36	0.06
	2-	191.1	22.2	0.38	0.06
	3-	227.7	29.0	0.39	0.07
	4-	193.5	24.0	0.38	0.05
	5-	196.5	25.4	0.37	0.07
	6-	-	-	0.35	0.05
	MEAN	195.4	24.2	0.37	0.06
	S.D.	21.3	3.3	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.23	0.24	31.021
	2-	1.28	0.11	31.023
	3-	1.15	0.09	31.028
	4-	1.31	0.19	31.031
	5-	1.25	0.39	31.021
	6-	1.20	-	31.026
	MEAN	1.24	0.20	31.025
	S.D.	0.06	0.12	0.004

DATE: 07/08/75
STATION: 3
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	1.96	0.23	0.20	0.44
2-	1.94	0.25	0.15	0.45
3-	1.97	0.27	0.17	0.50
4-	1.95	0.26	0.16	0.44
5-	2.10	0.23	0.17	0.55
6-	2.00	0.26	0.18	0.51
MEAN	1.99	0.25	0.17	0.48
S.D.	0.06	0.02	0.02	0.05

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	151.3	18.7	0.35	0.08
2-	109.3	13.8	0.38	0.06
3-	144.8	18.8	0.30	0.04
4-	146.3	23.2	0.34	0.04
5-	149.1	17.4	0.32	0.06
6-	114.7	15.6	0.32	0.06
MEAN	135.9	17.9	0.34	0.06
S.D.	18.7	3.2	0.03	0.02

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	0.72	0.11	30.801
2-	0.75	0.02	30.800
3-	0.88	0.02	30.800
4-	0.83	0.11	30.802
5-	0.75	0.17	30.802
6-	0.91	0.04	30.806
MEAN	0.81	0.08	30.802
S.D.	0.08	0.06	0.002

DATE: 07/08/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.08	0.26	0.16	0.48
	2-	2.12	0.27	0.14	0.51
	3-	2.04	0.25	0.15	0.53
	4-	2.05	0.25	0.16	0.45
	5-	1.87	0.24	0.19	0.48
	6-	-	0.25	0.15	0.53
	MEAN	2.03	0.25	0.16	0.50
	S.D.	0.10	0.01	0.02	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	162.6	17.4	0.36	0.07
	2-	195.5	22.3	0.34	0.06
	3-	144.8	16.6	0.33	0.05
	4-	194.0	22.6	0.33	0.06
	5-	153.1	18.7	0.35	0.04
	6-	168.2	17.8	0.37	0.06
	MEAN	169.7	19.2	0.35	0.06
	S.D.	21.0	2.6	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.88	0.09	30.856
	2-	0.75	0.11	30.861
	3-	0.75	0.32	30.859
	4-	0.72	0.15	30.859
	5-	0.72	0.26	30.859
	6-	0.69	-	30.863
	MEAN	0.75	0.19	30.861
	S.D.	0.07	0.10	0.003

DATE: 07/08/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.03	0.21	0.17	0.49
	2-	1.95	0.21	0.17	0.49
	3-	1.96	0.24	0.15	0.51
	4-	1.85	0.22	0.17	0.53
	5-	1.94	0.22	0.16	0.44
	6-	-	0.22	0.17	0.56
	MEAN	1.95	0.22	0.17	0.50
	S.D.	0.06	0.01	0.01	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	160.4	20.4	0.37	0.05
	2-	182.3	19.7	0.40	0.03
	3-	139.9	17.6	0.34	0.04
	4-	136.5	16.6	0.37	0.03
	5-	202.9	25.6	0.36	0.04
	6-	195.6	22.8	0.39	0.04
	MEAN	169.6	20.4	0.37	0.04
	S.D.	28.3	3.2	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.17	0.11	31.130
	2-	1.07	0.04	31.124
	3-	1.36	0.09	31.125
	4-	1.31	0.11	31.129
	5-	0.93	0.04	31.130
	6-	-	0.04	31.135
	MEAN	1.17	0.08	31.129
	S.D.	0.18	0.04	0.004

DATE: 07/08/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.51	0.27	0.19	0.48
	2-	2.60	0.28	0.20	0.56
	3-	2.55	0.26	0.20	0.49
	4-	2.25	0.27	0.18	0.50
	5-	2.30	0.29	0.17	0.55
	6-	-	0.26	0.21	0.56
	MEAN	2.44	0.27	0.19	0.52
	S.D.	0.16	0.01	0.01	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	140.0	18.9	0.34	0.04
	2-	139.6	22.7	0.39	0.04
	3-	177.8	23.9	0.36	0.03
	4-	176.4	22.9	0.36	0.05
	5-	185.2	22.1	0.34	0.04
	6-	138.3	19.0	0.37	0.03
	MEAN	159.6	21.6	0.36	0.04
	S.D.	22.4	2.1	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.07	0.11	30.915
	2-	1.12	0.19	30.921
	3-	1.04	0.06	30.915
	4-	1.01	0.19	30.912
	5-	1.01	0.17	30.208
	6-	0.83	0.17	30.908
	MEAN	1.01	0.15	30.913
	S.D.	0.10	0.05	0.005

DATE: 13/08/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.53	0.24	0.16	0.75
	2-	1.48	0.24	0.14	0.59
	3-	1.58	0.23	0.16	0.53
	4-	1.51	0.24	0.15	0.51
	5-	1.49	0.26	0.15	0.70
	6-	-	0.24	0.15	0.61
	MEAN	1.52	0.24	0.15	0.62
	S.D.	0.04	0.01	0.01	0.09

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	111.7	10.6	0.18	0.09
	2-	108.3	11.8	0.24	0.09
	3-	149.1	13.1	0.24	0.07
	4-	138.0	17.6	0.25	0.07
	5-	108.8	11.8	0.24	0.07
	6-	110.2	12.6	0.25	0.07
	MEAN	121.0	12.9	0.23	0.07
	S.D.	17.8	2.5	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.99	0.36	30.879
	2-	0.91	0.19	30.379
	3-	1.01	0.17	30.878
	4-	0.96	0.06	30.871
	5-	0.91	0.11	30.872
	6-	1.01	0.17	30.860
	MEAN	0.97	0.18	30.873
	S.D.	0.05	0.10	0.007

DATE: 13/08/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.53	0.21	0.10	0.45
	2-	1.80	0.21	0.12	0.40
	3-	1.59	0.23	0.09	0.50
	4-	1.58	0.22	0.11	0.58
	5-	1.47	0.23	0.11	0.58
	6-	-	0.20	0.10	0.53
	MEAN	1.59	0.22	0.11	0.51
	S.D.	0.12	0.01	0.01	0.07

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	122.2	12.3	0.25	0.09
	2-	120.8	14.0	0.23	0.08
	3-	120.3	13.7	0.24	0.08
	4-	170.3	16.2	0.24	0.08
	5-	99.2	17.9	0.22	0.09
	6-	120.0	13.1	0.26	0.09
	MEAN	125.5	14.5	0.24	0.09
	S.D.	23.6	2.1	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.99	0.06	30.915
	2-	0.96	0.17	30.906
	3-	0.93	0.11	30.905
	4-	0.93	0.15	30.906
	5-	1.12	0.11	30.890
	6-	0.99	0.13	30.911
	MEAN	0.99	0.12	30.906
	S.D.	0.07	0.04	0.009

DATE: 13/08/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.28	0.22	0.12	0.46
	2-	2.19	0.23	0.11	0.49
	3-	2.37	0.22	0.10	0.49
	4-	2.17	0.22	0.11	0.49
	5-	2.18	0.22	0.10	0.48
	6-	-	-	-	0.51
	MEAN	2.24	0.22	0.11	0.49
	S.D.	0.09	0.01	0.01	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	152.9	29.9	0.24	0.08
	2-	162.2	22.9	0.26	0.07
	3-	87.7	11.8	0.31	0.07
	4-	91.3	17.6	0.30	0.08
	5-	164.4	12.0	0.33	0.09
	6-	120.1	19.9	0.28	0.09
	MEAN	129.8	19.0	0.29	0.08
	S.D.	35.0	6.9	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES	1-	0.99	0.11	30.909
	2-	1.12	0.13	30.903
	3-	0.93	0.09	30.907
	4-	0.96	0.17	30.905
	5-	0.99	0.06	30.906
	6-	0.93	0.06	30.904
	MEAN	0.99	0.10	30.906
	S.D.	0.07	0.04	0.002

DATE: 13/08/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.20	0.23	0.15	0.34
	2-	2.30	0.24	0.15	0.50
	3-	2.45	0.26	0.13	0.55
	4-	2.09	0.25	0.13	0.49
	5-	2.15	0.22	0.15	0.48
	6-	-	0.24	0.14	0.64
	MEAN	2.24	0.24	0.14	0.50
	S.D.	0.14	0.01	0.01	0.10

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	177.8	23.2	0.26	0.07
	2-	157.5	29.6	0.28	0.09
	3-	125.1	18.7	0.28	0.08
	4-	101.9	22.1	0.23	0.07
	5-	134.7	19.3	0.31	0.07
	6-	157.5	32.2	0.29	0.09
	MEAN	142.4	24.2	0.28	0.08
	S.D.	27.2	5.5	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.17	0.04	30.884
	2-	0.96	0.04	30.885
	3-	1.09	0.13	30.888
	4-	0.96	0.09	30.886
	5-	0.93	0.11	30.882
	6-	0.99	0.02	30.885
	MEAN	1.02	0.07	30.885
	S.D.	0.09	0.04	0.002

DATE: 13/08/75
STATION: 5
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	2.59	0.25	0.10	0.48
2-	2.58	0.23	0.11	0.45
3-	2.65	0.23	0.10	0.39
4-	2.37	0.24	0.06	0.65
5-	2.13	0.26	0.11	0.50
6-	-	0.23	0.09	0.60
MEAN	2.46	0.24	0.10	0.51
S.D.	0.21	0.01	0.02	0.10

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	145.2	20.1	0.24	0.07
2-	102.8	24.9	0.24	0.08
3-	137.6	19.0	0.23	0.07
4-	127.5	25.2	0.24	0.06
5-	109.8	16.2	0.22	0.06
6-	174.5	27.1	0.21	0.06
MEAN	132.5	22.1	0.23	0.07
S.D.	26.0	4.3	0.01	0.01

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	0.88	0.06	30.915
2-	0.93	0.11	30.908
3-	0.91	0.04	30.906
4-	0.88	0.00	30.912
5-	0.80	0.04	30.902
6-	0.83	0.19	30.903
MEAN	0.87	0.07	30.908
S.D.	0.05	0.07	0.005

DATE: 13/08/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.85	0.25	0.11	0.45
	2-	2.84	0.20	0.05	0.43
	3-	2.84	0.26	0.10	0.55
	4-	2.71	0.24	0.09	0.41
	5-	-	0.25	0.10	0.54
	6-	-	0.27	0.11	0.46
	MEAN	2.81	0.25	0.09	0.47
	S.D.	0.07	0.02	0.02	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	123.2	16.2	0.21	0.06
	2-	101.2	21.8	0.28	0.07
	3-	111.7	15.9	0.22	0.07
	4-	115.0	18.7	0.26	0.09
	5-	154.8	18.5	0.27	0.08
	6-	155.3	28.5	0.26	0.08
	MEAN	126.9	19.9	0.25	0.08
	S.D.	22.9	4.7	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	0.99	0.06	30.924
	2-	0.91	0.06	30.924
	3-	1.01	0.06	30.928
	4-	1.04	0.02	30.922
	5-	1.01	0.19	30.924
	6-	0.88	0.13	30.918
	MEAN	0.97	0.09	30.923
	S.D.	0.06	0.06	0.003

DATE: 02/09/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.18	0.90	0.40	0.48
	2-	2.96	0.87	0.46	0.40
	3-	3.72	0.93	0.41	0.48
	4-	3.65	0.89	0.51	0.56
	5-	2.85	0.87	0.51	0.50
	6-	-	0.91	0.35	0.48
MEAN		3.17	0.90	0.44	0.48
S.D.		0.31	0.02	0.06	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	153.8	14.6	0.17	0.05
	2-	155.1	15.8	0.15	0.05
	3-	150.1	16.3	0.19	0.05
	4-	163.0	16.4	0.15	0.04
	5-	155.8	16.4	0.20	0.05
	6-	172.0	17.5	0.17	0.05
MEAN		158.3	16.2	0.17	0.05
S.D.		7.9	1.0	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	0.85	0.24	30.876
	2-	0.93	0.24	30.868
	3-	1.09	0.13	30.864
	4-	1.23	0.02	30.873
	5-	0.96	0.02	30.865
	6-	1.17	0.17	30.877
MEAN		1.04	0.14	30.871
S.D.		0.15	0.10	0.006

DATE: 02/09/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.96	1.01	0.52	0.65
	2-	3.33	0.97	0.49	0.56
	3-	3.81	0.98	0.46	0.53
	4-	3.48	1.05	0.46	0.59
	5-	3.34	0.99	0.41	0.63
	6-	-	1.01	0.51	0.56
	MEAN	3.58	1.00	0.48	0.59
	S.D.	0.29	0.03	0.04	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	193.6	24.3	0.23	0.07
	2-	174.2	19.9	0.22	0.05
	3-	149.4	17.3	0.23	0.05
	4-	135.1	15.5	0.21	0.04
	5-	132.3	15.2	0.23	0.05
	6-	148.4	17.6	-	0.04
	MEAN	155.5	18.3	0.22	0.05
	S.D.	23.8	3.4	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.33	0.04	30.825
	2-	1.63	0.06	30.845
	3-	1.79	0.04	30.840
	4-	1.68	0.06	30.845
	5-	1.81	0.13	30.835
	6-	1.33	0.09	30.837
	MEAN	1.60	0.07	30.838
	S.D.	0.21	0.04	0.008

DATE: 02/09/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.44	0.77	0.39	0.43
	2-	3.60	0.77	0.37	0.44
	3-	3.49	0.76	0.43	0.43
	4-	3.62	0.81	0.39	0.54
	5-	3.24	0.80	0.40	0.51
	6-	-	0.81	0.39	0.54
	MEAN	3.48	0.79	0.40	0.48
	S.D.	0.15	0.02	0.02	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	158.8	17.0	0.24	0.02
	2-	128.2	14.8	0.21	0.01
	3-	128.4	16.1	0.23	0.00
	4-	147.1	16.3	0.22	0.01
	5-	145.7	18.4	0.21	0.00
	6-	161.1	20.2	0.22	0.01
	MEAN	144.9	17.1	0.22	0.01
	S.D.	14.2	1.9	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.12	0.21	30.852
	2-	1.25	0.17	30.851
	3-	1.49	0.06	30.851
	4-	1.52	0.04	30.856
	5-	1.47	0.09	30.860
	6-	1.17	0.00	30.858
	MEAN	1.34	0.10	30.855
	S.D.	0.18	0.08	0.004

DATE: 02/09/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.72	0.81	0.36	0.50
	2-	2.67	0.82	0.34	0.48
	3-	2.48	0.80	0.32	0.48
	4-	2.40	0.85	0.34	0.56
	5-	3.02	0.87	0.36	0.46
	6-	-	0.81	0.28	0.50
	MEAN	2.66	0.83	0.33	0.50
	S.D.	0.24	0.03	0.03	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	201.6	23.6	0.18	0.06
	2-	172.4	18.9	0.18	0.05
	3-	164.4	18.1	0.13	0.05
	4-	130.4	13.2	0.16	0.05
	5-	139.0	14.0	0.17	0.05
	6-	123.6	11.5	-	0.04
	MEAN	155.2	16.6	0.16	0.05
	S.D.	29.7	4.5	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/oo
REPLICATES	1-	0.93	0.02	30.822
	2-	1.04	0.13	30.825
	3-	0.99	0.09	30.831
	4-	1.41	0.13	30.827
	5-	0.91	0.09	30.821
	6-	1.09	0.11	30.827
	MEAN	1.06	0.10	30.826
	S.D.	0.18	0.04	0.004

DATE: 02/09/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.59	0.98	0.45	0.56
	2-	3.87	0.97	0.40	0.54
	3-	4.09	0.95	0.43	0.56
	4-	4.03	0.91	0.44	0.44
	5-	3.90	0.98	0.43	0.56
	6-	-	0.93	0.47	0.58
	MEAN	3.90	0.95	0.44	0.54
	S.D.	0.19	0.03	0.02	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	168.8	15.5	0.20	0.02
	2-	167.3	19.4	0.22	0.03
	3-	175.6	21.2	0.22	0.02
	4-	172.9	21.6	0.22	0.02
	5-	173.7	20.4	0.22	0.02
	6-	180.3	15.7	0.23	0.02
	MEAN	173.1	19.0	0.22	0.02
	S.D.	4.7	2.7	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.68	0.21	30.865
	2-	1.49	0.19	30.866
	3-	1.95	0.06	30.873
	4-	1.55	0.17	30.870
	5-	1.60	0.21	30.870
	6-	1.97	0.06	30.871
	MEAN	1.71	0.15	30.869
	S.D.	0.21	0.07	0.003

DATE: 02/09/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.20	0.79	0.44	0.45
	2-	3.22	0.83	0.42	0.44
	3-	3.65	0.77	0.36	0.49
	4-	3.18	0.76	0.35	0.39
	5-	3.24	0.84	0.43	0.41
	6-	-	0.81	0.41	0.43
	MEAN	3.30	0.80	0.40	0.43
	S.D.	0.20	0.03	0.04	0.03

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	142.3	20.3	0.27	0.08
	2-	157.2	18.0	0.32	0.06
	3-	160.6	18.0	0.24	0.06
	4-	154.7	18.2	0.24	0.05
	5-	186.1	19.4	0.25	0.06
	6-	103.1	10.1	-	0.05
	MEAN	150.7	17.1	0.26	0.06
	S.D.	27.4	3.7	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.52	0.00	30.887
	2-	1.68	0.13	30.882
	3-	1.60	0.06	30.887
	4-	1.63	0.11	30.885
	5-	1.31	0.09	30.888
	6-	1.84	0.13	30.886
	MEAN	1.60	0.09	30.886
	S.D.	0.18	0.05	0.002

DATE: 09/09/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.80	1.23	0.72	0.88
	2-	3.09	1.20	0.70	0.69
	3-	3.19	1.26	0.69	0.80
	4-	3.31	1.16	0.62	0.63
	5-	3.14	1.18	0.74	0.51
	6-	2.83	1.28	0.76	0.59
	MEAN	3.23	1.22	0.71	0.68
	S.D.	0.32	0.05	0.05	0.14

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	160.5	18.5	0.13	0.09
	2-	135.7	15.7	0.12	0.09
	3-	172.5	20.8	0.14	0.09
	4-	141.1	17.5	0.14	0.07
	5-	173.6	20.4	0.16	0.05
	6-	145.4	17.7	0.14	0.05
	MEAN	154.8	18.4	0.14	0.07
	S.D.	16.4	1.7	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	2.56	0.21	30.559
	2-	2.37	0.11	30.559
	3-	2.32	0.13	30.555
	4-	2.48	0.06	30.557
	5-	2.11	0.21	30.558
	6-	2.43	-	30.558
	MEAN	2.38	0.14	30.558
	S.D.	0.16	0.07	0.002

DATE: 09/09/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.77	1.20	0.72	0.79
	2-	2.54	1.18	0.68	0.54
	3-	2.57	1.29	0.67	0.63
	4-	2.90	1.33	0.59	0.91
	5-	2.22	1.18	0.74	0.71
	6-	-	1.30	0.70	0.70
	MEAN	2.60	1.25	0.68	0.71
	S.D.	0.26	0.07	0.05	0.13

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	129.9	17.1	0.15	0.05
	2-	137.3	16.8	0.15	0.04
	3-	174.5	21.6	0.16	0.06
	4-	178.6	27.1	0.15	0.05
	5-	153.5	18.3	0.16	0.03
	6-	139.6	16.8	0.16	0.05
	MEAN	152.2	19.6	0.16	0.05
	S.D.	20.4	4.1	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	2.32	0.11	30.581
	2-	2.27	0.11	30.587
	3-	2.32	0.21	30.585
	4-	2.32	0.11	30.583
	5-	2.48	0.11	30.577
	6-	2.45	0.24	30.587
	MEAN	2.36	0.15	30.583
	S.D.	0.08	0.06	0.004

DATE: 09/09/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.31	1.28	0.82	0.54
	2-	3.12	1.37	0.73	0.53
	3-	3.33	1.32	0.63	0.70
	4-	2.93	1.35	0.71	0.80
	5-	3.04	1.35	0.74	0.75
	6-	3.45	1.23	0.69	0.61
	MEAN	3.20	1.32	0.72	0.65
	S.D.	0.20	0.05	0.06	0.11

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	156.5	23.0	0.14	0.07
	2-	141.7	19.9	0.15	0.03
	3-	130.3	20.2	0.13	0.05
	4-	146.5	20.4	0.16	0.05
	5-	244.9	25.2	0.17	0.06
	6-	171.7	23.0	0.13	0.07
	MEAN	165.3	22.0	0.15	0.06
	S.D.	41.5	2.1	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	2.43	0.09	30.576
	2-	2.24	0.02	30.577
	3-	2.32	0.02	30.580
	4-	2.27	0.00	30.585
	5-	2.24	0.09	30.580
	6-	2.45	-	30.577
	MEAN	2.33	0.04	30.579
	S.D.	0.09	0.04	0.003

DATE: 09/09/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.85	1.28	0.54	0.79
	2-	4.75	1.29	0.76	0.70
	3-	5.32	1.37	0.78	0.73
	4-	3.07	1.34	0.78	0.71
	5-	4.65	1.28	0.80	0.81
	6-	-	-	0.70	0.59
	MEAN	4.53	1.31	0.73	0.72
	S.D.	0.85	0.04	0.10	0.08

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	161.1	22.9	0.15	0.07
	2-	161.6	21.6	0.15	0.07
	3-	168.6	21.6	0.15	0.06
	4-	173.4	24.4	0.16	0.05
	5-	227.5	26.6	0.16	0.13
	6-	112.4	18.6	0.15	0.04
	MEAN	167.4	22.5	0.15	0.07
	S.D.	36.7	2.8	0.01	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	2.40	0.02	30.527
	2-	2.64	0.02	30.520
	3-	2.45	0.06	30.518
	4-	2.37	0.11	30.520
	5-	2.19	0.09	30.525
	6-	2.48	0.02	30.519
	MEAN	2.42	0.05	30.522
	S.D.	0.15	0.04	0.004

DATE: 09/09/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.39	1.43	0.89	0.75
	2-	6.28	1.47	0.93	1.15
	3-	6.01	1.37	0.73	1.38
	4-	5.55	1.45	0.83	1.36
	5-	5.89	1.44	0.93	0.88
	6-	-	1.44	0.69	1.26
	MEAN	6.02	1.43	0.83	1.13
	S.D.	0.33	0.03	0.10	0.26

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	125.3	18.9	0.17	0.04
	2-	108.6	18.6	0.16	0.04
	3-	160.8	22.9	0.13	0.05
	4-	127.1	19.4	0.18	0.04
	5-	130.0	24.1	0.16	0.04
	6-	143.8	19.2	0.16	-
	MEAN	132.6	20.5	0.16	0.04
	S.D.	17.8	2.4	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	2.61	0.11	30.624
	2-	2.45	0.11	30.622
	3-	2.59	0.09	30.625
	4-	q.19	0.04	30.627
	5-	2.43	0.02	30.624
	6-	2.72	0.11	30.632
	MEAN	2.50	0.08	30.626
	S.D.	0.19	0.04	0.004

DATE: 09/09/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	10.90	1.59	1.74	1.21
	2-	10.88	1.51	1.71	0.70
	3-	10.85	1.71	1.70	1.25
	4-	10.80	1.53	1.61	0.89
	5-	10.87	1.57	1.85	0.99
	6-	-	1.56	1.86	0.85
	MEAN	10.86	1.58	1.75	0.98
	S.D.	0.04	0.07	0.10	0.22

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	202.2	26.4	0.13	0.09
	2-	157.4	23.4	0.13	0.08
	3-	161.0	22.9	0.19	0.07
	4-	125.9	18.6	0.18	0.07
	5-	236.9	35.6	0.17	0.06
	6-	164.5	26.7	-	0.08
	MEAN	174.7	25.6	0.16	0.08
	S.D.	39.0	5.7	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	2.59	0.34	30.786
	2-	2.40	0.28	30.782
	3-	2.51	0.30	30.775
	4-	2.29	0.30	30.771
	5-	2.40	0.32	30.786
	6-	2.75	0.26	30.778
	MEAN	2.49	0.30	30.780
	S.D.	0.16	0.03	0.006

DATE: 23/09/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.47	1.35	0.33	0.66
	2-	2.83	1.41	0.27	0.84
	3-	2.74	1.26	0.33	0.63
	4-	2.78	1.33	0.29	0.40
	5-	2.65	1.34	0.31	0.58
	6-	2.47	1.38	0.32	-
	MEAN	2.66	1.35	0.31	0.62
	S.D.	0.16	0.05	0.02	0.16

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	149.5	19.7	0.16	0.04
	2-	160.5	21.9	0.15	0.02
	3-	107.6	15.0	0.18	0.01
	4-	132.9	17.9	0.16	0.01
	5-	109.3	17.7	0.18	0.02
	6-	137.0	18.2	0.14	0.05
	MEAN	132.8	18.4	0.16	0.03
	S.D.	21.2	2.3	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.39	0.21	30.694
	2-	1.37	0.06	30.687
	3-	1.28	0.13	30.696
	4-	1.28	0.11	30.694
	5-	1.47	0.11	30.691
	6-	1.47	0.02	30.691
	MEAN	1.39	0.11	30.692
	S.D.	0.09	0.07	0.003

DATE: 23/09/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.82	1.37	0.31	0.59
	2-	2.84	1.30	0.26	0.53
	3-	2.72	1.37	0.25	0.50
	4-	2.74	1.33	0.29	0.56
	5-	2.88	1.41	0.24	0.61
	6-	-	1.34	0.31	0.69
	MEAN	2.80	1.35	0.28	0.58
	S.D.	0.07	0.04	0.03	0.07

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	129.2	17.0	0.21	0.02
	2-	125.3	16.8	0.20	0.02
	3-	167.4	20.0	0.18	0.02
	4-	174.8	17.9	0.19	0.03
	5-	158.2	19.1	0.23	0.01
	6-	161.8	21.0	0.24	0.01
	MEAN	152.8	18.6	0.21	0.02
	S.D.	20.6	1.7	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.49	0.34	30.758
	2-	1.60	0.06	30.759
	3-	1.15	0.00	30.761
	4-	1.49	0.36	30.757
	5-	1.49	0.19	30.755
	6-	1.68	0.15	30.759
	MEAN	1.48	0.18	30.758
	S.D.	0.18	0.15	0.002

DATE: 23/09/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.24	1.46	0.34	0.81
	2-	3.12	1.46	0.23	0.54
	3-	3.28	1.47	0.33	0.49
	4-	2.94	1.30	0.36	0.90
	5-	3.22	1.30	0.38	0.83
	6-	3.04	1.38	0.40	0.55
	MEAN	3.14	1.40	0.34	0.69
	S.D.	0.13	0.08	0.06	0.18

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	145.4	19.1	0.17	0.02
	2-	142.3	18.9	0.19	0.03
	3-	157.7	22.6	0.18	0.02
	4-	187.5	25.6	0.17	0.01
	5-	163.8	21.5	0.21	0.02
	6-	237.6	35.7	0.16	0.04
	MEAN	172.4	23.9	0.18	0.02
	S.D.	35.8	6.3	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.31	0.21	30.668
	2-	0.99	0.09	30.667
	3-	1.12	0.11	30.673
	4-	1.12	0.17	30.673
	5-	1.01	0.26	30.683
	6-	1.39	0.17	30.669
	MEAN	1.16	0.17	30.672
	S.D.	0.16	0.06	0.006

DATE: 23/09/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	1.97	1.05	0.25	0.58
	2-	1.72	1.08	0.30	0.71
	3-	2.27	1.10	0.26	0.75
	4-	2.17	1.13	0.31	0.65
	5-	1.96	1.04	0.27	0.68
	6-	1.95	1.13	0.19	0.65
	MEAN	2.01	1.09	0.26	0.67
	S.D.	0.19	0.04	0.04	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	105.7	14.6	0.22	0.00
	2-	130.6	15.2	0.21	0.01
	3-	171.2	17.6	0.22	0.02
	4-	108.1	13.2	0.20	0.02
	5-	162.2	18.6	0.19	0.01
	6-	144.1	16.5	0.22	0.01
	MEAN	136.8	16.0	0.21	0.01
	S.D.	27.5	2.0	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.39	0.21	30.894
	2-	1.36	0.17	30.897
	3-	1.28	0.13	30.893
	4-	1.01	0.11	30.893
	5-	1.15	0.06	30.897
	6-	1.55	0.15	30.893
	MEAN	1.29	0.14	30.895
	S.D.	0.19	0.05	0.002

DATE: 23/09/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.66	1.52	0.16	0.79
	2-	2.73	1.42	0.32	0.79
	3-	2.33	1.37	0.25	1.01
	4-	1.92	1.42	0.26	1.01
	5-	2.61	1.29	0.21	0.89
	6-	2.50	1.47	0.27	-
	MEAN	2.46	1.42	0.25	0.90
	S.D.	0.30	0.08	0.05	0.11

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	133.2	19.4	0.15	0.02
	2-	165.8	24.5	0.13	0.02
	3-	164.0	24.1	0.16	0.01
	4-	168.4	22.9	0.20	0.01
	5-	224.7	30.0	0.13	0.00
	6-	117.9	17.7	0.15	0.04
	MEAN	162.3	23.1	0.15	0.02
	S.D.	36.8	4.3	0.03	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.12	0.04	30.695
	2-	1.23	0.09	30.690
	3-	1.20	0.04	30.691
	4-	1.20	0.06	30.689
	5-	1.39	0.11	30.691
	6-	1.28	0.11	30.691
	MEAN	1.24	0.08	30.691
	S.D.	0.09	0.03	0.002

DATE: 23/09/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.95	1.28	0.22	0.39
	2-	2.35	1.41	0.33	0.45
	3-	2.62	1.43	0.28	0.49
	4-	2.20	1.43	0.23	0.71
	5-	2.94	1.45	0.23	0.86
	6-	2.86	1.47	0.21	0.58
	MEAN	2.65	1.41	0.25	0.58
	S.D.	0.32	0.07	0.05	0.18

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	229.0	24.3	0.14	0.05
	2-	220.9	23.1	0.19	0.05
	3-	214.3	30.9	0.17	0.04
	4-	134.1	15.9	0.21	0.02
	5-	190.4	23.9	0.16	0.02
	6-	149.4	18.3	0.22	0.02
	MEAN	189.7	22.7	0.18	0.03
	S.D.	39.6	5.2	0.03	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.39	0.24	30.661
	2-	0.69	0.15	30.663
	3-	0.75	0.09	30.661
	4-	1.04	0.19	30.662
	5-	1.36	0.06	30.660
	6-	1.15	0.24	30.660
	MEAN	1.06	0.15	30.661
	S.D.	0.30	0.10	0.001

DATE: 08/10/75
STATION: 1
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	5.94	2.31	0.33	0.36
2-	5.87	2.39	0.28	0.36
3-	5.98	2.31	0.31	0.49
4-	5.51	2.36	0.36	0.36
5-	5.84	2.28	0.40	0.31
6-	6.06	2.32	0.38	0.38
MEAN	5.87	2.33	0.34	0.38
S.D.	0.19	0.04	0.05	0.06

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	190.8	22.6	0.36	0.57
2-	220.2	23.9	0.40	0.52
3-	252.5	23.2	0.42	0.60
4-	207.3	26.2	0.37	0.47
5-	174.2	17.8	0.39	0.50
6-	134.5	16.8	0.46	0.58
MEAN	196.6	21.8	0.40	0.54
S.D.	40.5	3.7	0.04	0.05

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	3.23	0.32	31.136
2-	2.83	0.28	31.135
3-	2.72	0.26	31.139
4-	2.80	0.28	31.138
5-	3.09	0.26	31.144
6-	2.61	0.32	31.140
MEAN	2.88	0.29	31.139
S.D.	0.23	0.03	0.003

DATE: 08/10/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.18	2.63	0.49	0.49
	2-	6.60	2.58	0.36	0.43
	3-	6.52	2.47	0.56	0.44
	4-	7.26	2.68	0.42	0.56
	5-	5.85	2.68	0.46	0.45
	6-	6.41	2.79	0.39	0.46
	MEAN	6.47	2.64	0.45	0.47
	S.D.	0.47	0.11	0.07	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	127.9	16.8	0.36	0.44
	2-	149.5	18.5	0.37	0.33
	3-	132.5	17.0	0.35	0.34
	4-	136.6	19.8	0.34	0.35
	5-	170.7	21.2	0.37	0.40
	6-	125.4	16.2	0.36	0.33
	MEAN	140.4	18.3	0.36	0.37
	S.D.	17.1	1.9	0.01	0.05

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	2.19	0.11	31.109
	2-	2.40	0.19	31.108
	3-	2.05	0.19	31.102
	4-	2.37	0.17	31.102
	5-	2.77	0.11	31.105
	6-	2.48	0.21	31.101
	MEAN	2.38	0.16	31.105
	S.D.	0.25	0.04	0.003

DATE: 08/10/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.76	2.58	0.44	0.61
	2-	8.51	2.65	0.47	0.50
	3-	7.37	2.81	0.34	0.53
	4-	7.01	2.77	0.50	0.46
	5-	7.16	2.76	0.53	0.45
	6-	7.13	2.82	0.34	-
	MEAN	7.49	2.73	0.44	0.47
	S.D.	0.57	0.10	0.08	0.11

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	151.9	19.0	0.38	0.37
	2-	177.5	22.5	0.37	0.30
	3-	183.0	24.7	0.39	0.40
	4-	142.9	7.0	0.39	0.39
	5-	231.3	24.9	0.33	0.29
	6-	156.3	21.6	0.36	0.27
	MEAN	173.8	22.5	0.37	0.34
	S.D.	32.1	2.4	0.02	0.06

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	3.17	0.13	31.075
	2-	2.16	0.04	31.080
	3-	2.37	0.13	31.081
	4-	3.12	0.09	31.078
	5-	2.03	0.19	31.079
	6-	3.32	0.19	31.096
	MEAN	2.53	0.13	31.082
	S.D.	0.49	0.06	0.007

DATE: 08/10/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.55	2.39	0.40	0.39
	2-	6.25	2.33	0.37	0.60
	3-	6.12	2.43	0.35	0.56
	4-	6.14	2.30	0.34	0.41
	5-	6.22	2.38	0.34	0.43
	6-	5.24	2.26	0.56	0.45
	MEAN	6.09	2.35	0.39	0.47
	S.D.	0.44	0.06	0.08	0.09

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	171.5	21.7	0.35	0.53
	2-	160.0	20.2	0.38	0.44
	3-	126.4	19.6	0.36	0.58
	4-	118.5	19.3	0.38	0.48
	5-	153.3	22.1	0.38	0.52
	6-	93.7	15.3	0.36	0.62
	MEAN	137.2	19.7	0.37	0.53
	S.D.	29.4	2.4	0.01	0.07

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	2.91	0.21	31.153
	2-	2.77	0.21	31.153
	3-	3.20	0.26	31.151
	4-	2.59	0.24	31.150
	5-	2.29	0.26	31.144
	6-	2.40	0.24	31.154
	MEAN	2.69	0.24	31.151
	S.D.	0.34	0.02	0.004

DATE: 08/10/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	7.80	2.65	0.29	0.56
	2-	8.11	2.70	0.30	0.68
	3-	8.02	2.75	0.35	0.84
	4-	6.51	2.80	0.38	0.26
	5-	7.27	2.80	0.38	0.28
	6-	-	2.70	0.42	0.49
	MEAN	7.54	2.73	0.35	0.52
	S.D.	0.66	0.06	0.05	0.23

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	156.4	23.0	0.37	0.39
	2-	166.3	23.9	0.49	0.38
	3-	121.1	20.9	0.34	0.40
	4-	159.0	21.0	0.36	0.36
	5-	124.6	20.0	0.34	0.35
	6-	177.4	24.9	0.35	0.36
	MEAN	150.8	22.3	0.38	0.37
	S.D.	22.9	1.9	0.06	0.20

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	2.37	0.13	31.110
	2-	2.45	0.04	31.106
	3-	2.19	0.09	31.107
	4-	2.75	0.02	31.104
	5-	2.96	0.03	31.103
	6-	2.13	0.02	31 102
	MEAN	2.48	0.06	31.105
	S.D.	0.32	0.05	0.009

DATE: 08/10/75
STATION: 6
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	8.27	2.99	0.33	0.59
2-	8.08	2.97	0.41	0.78
3-	5.90	3.10	0.49	0.36
4-	7.69	2.94	0.46	0.55
5-	7.60	2.85	0.33	0.71
6-	7.84	3.05	0.45	0.59
MEAN	7.56	2.98	0.41	0.60
S.D.	0.85	0.09	0.07	0.14

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	146.6	25.5	0.35	0.18
2-	129.7	22.4	0.37	0.19
3-	150.8	22.2	0.37	0.28
4-	124.5	22.7	0.37	0.27
5-	138.3	22.2	0.32	0.28
6-	194.0	27.2	0.38	0.30
MEAN	147.3	23.7	0.36	0.25
S.D.	24.9	2.1	0.02	0.05

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	2.88	0.02	31.087
2-	2.99	0.00	31.102
3-	2.77	0.00	31.089
4-	2.72	0.03	31.096
5-	2.72	0.00	31.091
6-	2.93	0.00	31.092
MEAN	2.84	0.01	31.093
S.D.	0.12	0.01	0.005

DATE: 22/10/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.59	1.63	0.29	0.48
	2-	4.38	1.69	0.28	0.34
	3-	4.31	1.69	0.28	0.56
	4-	4.32	1.70	0.19	0.65
	5-	4.18	1.66	0.32	0.63
	6-	3.76	1.79	0.23	0.64
	MEAN	4.09	1.69	0.27	0.55
	S.D.	0.33	0.05	0.05	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	163.8	23.1	0.21	0.01
	2-	163.2	20.6	0.25	0.01
	3-	173.5	23.8	0.24	0.02
	4-	130.8	19.0	0.25	0.05
	5-	139.2	21.6	0.24	0.03
	6-	155.0	19.1	0.20	0.04
	MEAN	154.3	21.2	0.23	0.03
	S.D.	16.2	2.0	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.63	0.13	30.310
	2-	1.39	0.15	30.314
	3-	1.36	0.19	30.313
	4-	1.31	0.13	30.312
	5-	1.52	0.13	30.312
	6-	1.73	-	30.311
	MEAN	1.49	0.15	30.313
	S.D.	0.17	0.03	0.002

DATE: 22/10/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.42	2.06	0.24	0.59
	2-	4.55	2.21	0.13	0.71
	3-	4.94	2.11	0.23	0.71
	4-	5.36	2.21	0.23	0.93
	5-	4.91	2.16	0.24	0.83
	6-	3.81	2.11	0.29	0.65
	MEAN	4.83	2.14	0.23	0.74
	S.D.	0.59	0.06	0.05	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	192.4	24.8	0.23	0.01
	2-	190.2	25.6	0.25	0.01
	3-	168.6	23.9	0.27	0.03
	4-	195.7	26.0	0.25	0.03
	5-	187.8	25.1	0.24	0.02
	6-	204.6	25.8	-	0.02
	MEAN	189.9	25.2	0.25	0.02
	S.D.	12.0	0.8	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.47	0.13	30.329
	2-	1.73	0.09	30.330
	3-	1.36	0.13	30.330
	4-	1.39	0.11	30.331
	5-	1.39	0.09	30.328
	6-	1.60	-	30.332
	MEAN	1.49	0.11	30.330
	S.D.	0.15	0.02	0.001

DATE: 22/10/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.36	2.37	0.14	0.59
	2-	6.19	2.38	0.14	0.88
	3-	4.93	2.41	0.11	0.61
	4-	6.00	2.31	0.21	0.74
	5-	6.24	2.28	0.24	0.78
	6-	5.95	2.34	0.18	0.61
	MEAN	5.78	2.35	0.17	0.70
	S.D.	0.52	0.05	0.05	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	195.8	28.6	0.23	0.03
	2-	197.2	25.2	0.24	0.03
	3-	166.9	23.5	0.23	0.04
	4-	185.7	24.9	0.22	0.04
	5-	179.4	23.4	0.20	0.04
	6-	185.4	26.3	0.23	0.01
	MEAN	185.1	25.3	0.23	0.03
	S.D.	11.2	2.0	0.01	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.57	0.17	30.329
	2-	1.39	0.09	30.328
	3-	1.52	0.04	30.325
	4-	1.52	0.06	30.328
	5-	1.39	0.06	30.327
	6-	1.52	0.04	30.329
	MEAN	1.49	0.08	30.328
	S.D.	0.08	0.05	0.002

DATE: 22/10/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.88	1.91	0.37	0.43
	2-	5.03	1.91	0.31	0.44
	3-	5.02	1.91	0.43	0.35
	4-	4.95	1.98	0.18	0.63
	5-	4.58	1.82	0.34	0.50
	6-	-	1.92	0.34	0.48
	MEAN	4.89	1.91	0.33	0.47
	S.D.	0.18	0.05	0.08	0.09

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	135.9	21.5	0.25	0.08
	2-	203.7	28.8	0.27	0.06
	3-	193.5	28.5	0.27	0.06
	4-	165.5	26.8	0.26	0.14
	5-	118.9	18.7	0.26	0.14
	6-	156.0	22.2	0.25	0.12
	MEAN	162.3	24.4	0.26	0.10
	S.D.	32.6	4.2	0.01	0.04

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	1.57	0.09	30.237
	2-	1.68	0.15	30.237
	3-	1.63	0.13	30.234
	4-	1.49	0.13	30.231
	5-	1.28	0.15	30.233
	6-	1.12	0.15	30.231
	MEAN	1.46	0.13	30.234
	S.D.	0.22	0.02	0.003

DATE: 22/10/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.94	1.88	0.25	0.84
	2-	4.45	1.86	0.22	0.74
	3-	5.38	1.80	0.27	0.54
	4-	4.82	1.84	0.26	0.56
	5-	4.71	1.85	0.22	0.78
	6-	4.94	1.68	0.59	0.73
	MEAN	4.87	1.82	0.30	0.70
	S.D.	0.31	0.07	0.14	0.12

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	219.1	30.2	0.21	0.03
	2-	168.2	23.4	0.23	0.02
	3-	199.0	25.7	0.27	0.01
	4-	195.1	24.7	0.24	0.01
	5-	169.7	23.4	0.23	0.02
	6-	150.6	21.2	0.23	0.02
	MEAN	183.6	24.8	0.24	0.02
	S.D.	25.1	3.1	0.02	0.01

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	1.63	0.09	30.350
	2-	1.20	0.06	30.345
	3-	1.73	0.02	30.344
	4-	1.31	0.02	30.337
	5-	1.60	0.00	30.341
	6-	1.52	0.02	30.343
	MEAN	1.50	0.04	30.343
	S.D.	0.20	0.03	0.004

DATE: 22/10/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.85	2.06	0.24	0.55
	2-	4.74	1.91	0.19	0.63
	3-	4.89	1.95	0.27	0.56
	4-	4.77	1.93	0.29	0.59
	5-	4.93	1.82	0.34	0.64
	6-	4.99	1.91	0.25	0.56
	MEAN	4.86	1.93	0.26	0.59
	S.D.	0.10	0.08	0.05	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	227.7	30.9	0.22	0.02
	2-	132.1	21.0	0.28	0.03
	3-	139.0	19.0	0.28	0.02
	4-	141.4	20.1	0.25	0.03
	5-	145.0	21.2	0.27	0.06
	6-	-	-	0.24	0.03
	MEAN	157.0	22.4	0.26	0.03
	S.D.	39.8	4.8	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.41	0.06	30.332
	2-	1.95	0.04	30.330
	3-	1.89	0.15	30.326
	4-	2.00	0.02	30.326
	5-	2.11	0.04	30.319
	6-	2.05	0.02	30.327
	MEAN	1.90	0.06	30.327
	S.D.	0.25	0.05	0.005

DATE: 05/11/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.72	4.19	0.00	0.46
	2-	5.06	4.00	0.00	0.56
	3-	5.56	4.21	0.00	0.53
	4-	7.05	4.04	0.00	0.64
	5-	5.47	4.24	0.00	0.70
	6-	4.90	4.14	0.00	0.50
	MEAN	5.46	4.14	0.00	0.57
	S.D.	0.84	0.10	-	0.09

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	342.0	36.4	0.26	0.09
	2-	295.1	32.3	0.24	0.09
	3-	316.5	33.6	0.27	0.07
	4-	334.9	36.1	0.27	0.10
	5-	312.7	33.4	0.28	0.06
	6-	337.0	38.0	0.29	0.05
	MEAN	323.0	35.0	0.27	0.08
	S.D.	18.0	2.2	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	3.33	0.34	30.275
	2-	2.88	0.21	30.276
	3-	2.61	0.24	30.274
	4-	2.45	0.28	30.274
	5-	3.31	0.11	30.276
	6-	2.96	0.21	30.276
	MEAN	2.92	0.23	30.275
	S.D.	0.36	0.08	0.001

DATE: 05/11/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.41	4.46	0.00	0.58
	2-	6.29	4.41	0.00	0.58
	3-	6.56	4.60	0.00	0.54
	4-	6.00	4.57	0.00	0.55
	5-	5.57	4.49	0.00	0.75
	6-	-	4.54	0.00	0.60
	MEAN	5.97	4.51	0.00	0.60
	S.D.	0.48	0.07	-	0.08

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	-	-	-	-
	2-	-	-	-	-
	3-	-	-	-	-
	4-	-	-	-	-
	5-	-	-	-	-
	6-	-	-	-	-
	MEAN	-	-	-	-
	S.D.	-	-	-	-

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	-	-	30.275
	2-	-	-	30.276
	3-	-	-	30.274
	4-	-	-	30.274
	5-	-	-	30.282
	6-	-	-	30.275
	MEAN	-	-	30.276
	S.D.	-	-	0.003

DATE: 05/11/75
STATION: 3
DEPTH: 5 m

	PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	5.22	4.40	0.00	0.73
2-	5.41	4.27	0.00	0.70
3-	7.29	4.32	0.00	0.65
4-	5.64	4.31	0.00	0.64
5-	5.11	4.40	0.00	0.71
6-	-	4.43	0.00	0.80
MEAN	5.73	4.34	0.00	0.70
S.D.	0.89	0.08	-	0.06

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	323.6	32.4	0.28	0.08
2-	332.8	34.4	0.29	0.10
3-	370.0	41.6	0.29	0.09
4-	355.0	40.9	0.31	0.10
5-	392.5	36.8	0.26	0.10
6-	291.9	29.8	0.22	0.09
MEAN	344.3	36.0	0.28	0.09
S.D.	35.8	4.7	0.03	0.01

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	3.09	0.24	30.304
2-	2.91	0.19	30.305
3-	2.77	0.11	30.303
4-	3.07	0.17	30.304
5-	2.00	0.13	30.303
6-	2.99	-	30.301
MEAN	2.81	0.17	30.303
S.D.	0.41	0.05	0.001

DATE: 05/11/75
STATION: 4
DEPTH: 5 m

	PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES 1-	5.23	4.05	0.00	0.74
2-	5.80	4.03	0.00	0.69
3-	5.99	4.34	0.00	0.71
4-	6.73	4.17	0.00	0.74
5-	6.70	4.22	0.00	0.74
6-	-	4.27	0.00	0.66
MEAN	6.09	4.18	0.00	0.71
S.D.	0.64	0.12	-	0.03

	PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES 1-	276.6	31.0	0.24	0.14
2-	336.0	35.4	0.27	0.13
3-	298.5	33.7	0.23	0.12
4-	274.7	28.3	0.24	0.13
5-	390.0	32.4	0.22	0.15
6-	321.7	32.3	0.29	0.13
MEAN	316.3	32.2	0.25	0.13
S.D.	43.5	2.4	0.03	0.01

	SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES 1-	2.67	0.06	30.316
2-	2.08	0.13	30.311
3-	2.13	0.06	30.314
4-	2.48	0.09	30.315
5-	2.75	0.28	30.313
6-	2.53	0.32	30.318
MEAN	2.44	0.16	30.315
S.D.	0.28	0.12	0.002

DATE: 05/11/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.95	5.53	0.00	0.80
	2-	7.65	5.35	0.00	0.79
	3-	6.50	5.45	0.00	0.74
	4-	4.67	5.40	0.00	0.91
	5-	6.64	5.52	0.00	0.68
	6-	-	5.61	0.00	0.79
	MEAN	6.48	5.48	0.00	0.78
	S.D.	1.11	0.10	-	0.08

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	338.4	38.1	0.26	0.08
	2-	368.2	36.2	0.25	0.10
	3-	333.8	35.9	0.23	0.06
	4-	370.8	38.5	0.20	0.02
	5-	322.0	34.6	0.24	0.05
	6-	350.5	35.2	0.26	0.06
	MEAN	347.3	36.4	0.24	0.06
	S.D.	19.5	1.6	0.02	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	2.48	0.11	30.274
	2-	2.43	0.17	30.269
	3-	1.92	0.28	30.269
	4-	2.37	0.41	30.270
	5-	2.85	0.47	30.264
	6-	2.05	-	30.256
	MEAN	2.35	0.29	30.267
	S.D.	0.33	0.15	0.006

DATE: 05/11/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	6.15	6.92	0.00	0.90
	2-	6.81	6.73	0.00	0.86
	3-	5.37	7.25	0.00	0.86
	4-	7.92	6.86	0.00	0.95
	5-	7.46	6.95	0.00	1.00
	6-	6.51	6.81	0.00	0.75
	MEAN	6.70	6.92	0.00	0.89
	S.D.	0.91	0.18	-	0.09

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	419.1	44.0	0.28	0.06
	2-	409.3	44.0	0.29	0.04
	3-	490.5	50.9	0.25	0.04
	4-	479.7	50.4	0.23	0.04
	5-	436.5	45.7	0.25	0.06
	6-	383.6	40.9	0.28	0.08
	MEAN	436.5	46.0	0.26	0.05
	S.D.	41.5	3.9	0.02	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	2.08	0.09	30.247
	2-	2.69	0.04	30.268
	3-	2.75	0.11	30.256
	4-	3.20	0.34	30.273
	5-	2.91	0.15	30.275
	6-	1.89	0.04	30.270
	MEAN	2.59	0.13	30.265
	S.D.	0.50	0.11	0.011

DATE: 19/11/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.37	3.01	0.05	0.58
	2-	4.04	2.95	0.00	0.48
	3-	4.12	3.04	0.00	0.44
	4-	3.57	3.10	0.00	0.54
	5-	3.06	3.19	0.00	0.55
	6-	3.62	3.01	0.02	0.58
	MEAN	3.63	3.05	0.01	0.53
	S.D.	0.40	0.08	0.02	0.06

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	458.8	57.5	0.33	0.19
	2-	309.6	39.9	0.32	0.21
	3-	446.9	49.6	0.32	0.24
	4-	380.9	42.4	0.29	0.24
	5-	288.4	34.8	0.33	0.24
	6-	358.9	42.6	0.27	0.18
	MEAN	373.9	44.5	0.31	0.22
	S.D.	69.7	8.0	0.02	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	2.45	0.51	30.187
	2-	3.12	0.43	30.179
	3-	3.63	0.41	30.186
	4-	2.59	0.36	30.187
	5-	4.19	0.41	30.194
	6-	2.48	0.34	30.185
	MEAN	3.08	0.41	30.186
	S.D.	0.71	0.06	0.005

DATE: 19/11/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	4.55	3.36	0.00	0.64
	2-	4.68	3.30	0.00	0.65
	3-	4.36	3.37	0.00	0.58
	4-	4.07	3.49	0.00	0.61
	5-	4.20	3.44	0.00	0.60
	6-	4.31	3.29	0.00	0.70
	MEAN	4.36	3.38	0.00	0.63
	S.D.	0.22	0.08	-	0.04

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	243.5	33.0	0.31	0.04
	2-	272.4	37.8	0.29	0.06
	3-	313.2	38.2	0.29	0.08
	4-	297.6	37.3	0.29	0.09
	5-	300.3	36.7	0.31	0.09
	6-	309.7	37.0	0.28	0.09
	MEAN	292.8	36.7	0.30	0.08
	S.D.	25.3	1.9	0.01	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	2.61	0.36	30.121
	2-	3.01	0.24	30.120
	3-	2.69	0.26	30.123
	4-	2.56	0.26	30.120
	5-	2.32	0.17	30.108
	6-	2.93	0.28	30.116
	MEAN	2.69	0.26	30.118
	S.D.	0.25	0.06	0.005

DATE: 19/11/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.54	4.14	0.00	0.59
	2-	4.64	4.67	0.00	0.89
	3-	4.11	4.09	0.00	0.71
	4-	4.77	4.32	0.00	0.76
	5-	4.60	4.77	0.00	0.73
	6-	4.55	4.76	0.00	0.69
	MEAN	4.70	4.46	0.00	0.73
	S.D.	0.47	0.31	-	0.10

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	419.9	47.2	0.27	0.09
	2-	350.6	38.3	0.26	0.07
	3-	397.9	44.0	0.23	0.07
	4-	430.4	46.9	0.22	0.04
	5-	422.6	46.7	0.25	0.09
	6-	456.7	51.7	0.30	0.03
	MEAN	413.0	45.8	0.26	0.07
	S.D.	36.0	4.4	0.03	0.03

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	3.76	0.36	30.045
	2-	2.61	0.21	30.047
	3-	4.69	0.24	30.043
	4-	4.53	0.28	30.046
	5-	4.29	0.30	30.046
	6-	3.63	0.47	30.045
	MEAN	3.92	0.31	30.045
	S.D.	0.77	0.09	0.001

DATE: 19/11/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	2.73	1.59	0.13	0.38
	2-	1.70	1.64	0.14	0.41
	3-	2.15	1.64	0.22	0.38
	4-	2.56	1.62	0.24	0.36
	5-	2.32	1.69	0.21	0.38
	6-	2.38	1.72	0.14	0.35
	MEAN	2.31	1.65	0.18	0.38
	S.D.	0.36	0.05	0.05	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	198.9	27.6	0.37	0.58
	2-	147.8	19.1	0.33	0.49
	3-	139.8	19.2	0.34	0.48
	4-	161.3	21.0	0.37	0.58
	5-	183.2	23.3	0.32	0.33
	6-	234.6	31.6	0.38	0.44
	MEAN	177.6	23.6	0.35	0.48
	S.D.	35.5	5.0	0.03	0.09

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	4.27	0.64	30.240
	2-	4.16	0.60	30.255
	3-	3.84	0.64	30.240
	4-	2.40	0.56	30.236
	5-	3.20	0.62	30.240
	6-	2.96	0.62	30.242
	MEAN	3.47	0.61	30.242
	S.D.	0.74	0.03	0.007

DATE: 19/11/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	3.97	3.37	0.00	0.69
	2-	4.08	3.71	0.00	0.70
	3-	4.51	3.73	0.00	0.71
	4-	4.44	3.51	0.00	0.74
	5-	4.07	3.73	0.00	0.76
	6-	3.70	3.63	0.00	0.83
	MEAN	4.13	3.61	0.00	0.74
	S.D.	0.30	0.15	-	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	328.0	36.4	0.24	0.03
	2-	310.4	37.1	0.29	0.12
	3-	330.8	37.4	0.28	0.13
	4-	344.8	34.5	0.25	0.03
	5-	469.2	45.9	0.26	0.11
	6-	301.4	35.1	0.28	0.05
	MEAN	347.4	37.7	0.27	0.08
	S.D.	61.6	4.2	0.02	0.05

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	3.39	0.19	30.091
	2-	4.27	0.15	30.092
	3-	3.12	0.17	30.094
	4-	3.20	0.04	30.096
	5-	4.37	0.09	30.094
	6-	4.69	0.13	30.092
	MEAN	3.84	0.13	30.093
	S.D.	0.68	0.06	0.002

DATE: 19/11/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	5.98	5.86	0.00	0.84
	2-	4.24	5.69	0.00	0.83
	3-	4.51	5.89	0.00	0.89
	4-	5.92	6.72	0.00	0.93
	5-	5.30	7.63	0.00	0.91
	6-	5.08	6.64	0.00	0.91
	MEAN	5.17	6.41	0.00	0.87
	S.D.	0.71	0.74	-	0.05

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	415.6	48.3	0.23	0.03
	2-	446.5	48.5	0.25	0.09
	3-	468.2	51.6	0.18	0.03
	4-	417.8	49.2	0.23	0.04
	5-	426.1	47.6	0.29	0.06
	6-	463.1	51.4	-	0.05
	MEAN	439.6	49.4	0.24	0.05
	S.D.	23.0	1.7	0.04	0.02

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	1.97	0.15	30.043
	2-	1.95	0.06	30.043
	3-	1.79	0.02	30.037
	4-	1.71	0.04	30.057
	5-	1.55	0.08	30.045
	6-	2.69	0.02	30.048
	MEAN	1.94	0.06	30.046
	S.D.	0.40	0.05	0.007

DATE: 16/12/75
STATION: 1
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.38	1.93	0.00	0.33
	2-	0.57	1.55	0.00	0.26
	3-	0.64	1.53	0.00	0.26
	4-	0.56	1.56	0.00	0.30
	5-	0.50	1.52	0.00	0.30
	6-	0.49	1.44	0.00	0.30
	MEAN	0.52	1.59	0.00	0.29
	S.D.	0.09	0.17	-	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	309.9	33.4	0.57	0.43
	2-	187.3	21.7	0.54	0.61
	3-	211.2	23.7	0.55	0.58
	4-	171.4	21.1	0.53	0.58
	5-	199.1	22.1	0.50	0.46
	6-	182.0	22.6	0.55	0.46
	MEAN	210.2	24.1	0.54	0.52
	S.D.	50.8	4.6	0.02	0.08

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	7.39	0.39	30.192
	2-	6.40	0.32	30.183
	3-	7.39	0.30	30.190
	4-	5.41	0.34	30.187
	5-	7.57	0.30	30.188
	6-	6.40	0.43	30.188
	MEAN	6.76	0.35	30.188
	S.D.	0.84	0.05	0.003

DATE: 16/12/75
STATION: 2
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.47	1.77	0.00	0.33
	2-	0.66	1.69	0.00	0.34
	3-	0.54	1.74	0.00	0.33
	4-	0.60	1.79	0.00	0.35
	5-	0.57	1.68	0.00	0.30
	6-	0.53	1.77	0.00	0.33
	MEAN	0.56	1.74	0.00	0.33
	S.D.	0.06	0.05	-	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	193.9	25.0	0.48	0.60
	2-	169.6	23.6	0.55	0.37
	3-	236.1	28.7	0.54	0.47
	4-	159.9	20.2	0.56	0.58
	5-	238.6	27.3	0.56	0.40
	6-	292.1	34.0	0.57	0.54
	MEAN	215.0	26.5	0.54	0.49
	S.D.	50.0	4.7	0.03	0.10

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	8.27	0.24	30.176
	2-	6.88	0.28	30.180
	3-	7.41	0.21	30.175
	4-	8.26	0.28	30.171
	5-	6.24	0.24	30.178
	6-	7.52	0.21	30.175
	MEAN	7.43	0.24	30.176
	S.D.	0.79	0.03	0.003

DATE: 16/12/75
STATION: 3
DEPTH: 5 m

		PRODUCTION mg C $m^{-3} h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.58	1.77	0.00	0.31
	2-	0.47	1.79	0.00	0.34
	3-	0.52	1.88	0.00	0.30
	4-	0.51	1.72	0.00	0.29
	5-	0.57	1.79	0.00	0.30
	6-	0.52	-	0.00	0.28
	MEAN	0.53	1.79	0.00	0.30
	S.D.	0.04	0.06	-	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	236.7	26.8	0.55	0.53
	2-	250.7	30.1	0.50	0.50
	3-	235.9	24.7	0.57	0.48
	4-	241.3	22.2	0.54	0.39
	5-	207.1	26.6	0.58	0.60
	6-	263.8	29.1	0.48	0.49
	MEAN	239.3	26.6	0.54	0.50
	S.D.	18.9	2.9	0.04	0.07

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY ‰
REPLICATES	1-	7.07	0.17	30.192
	2-	6.99	0.13	30.190
	3-	8.13	0.24	30.190
	4-	6.27	0.24	30.189
	5-	8.32	0.15	30.190
	6-	8.21	0.15	30.187
	MEAN	7.50	0.18	30.190
	S.D.	0.84	0.05	0.002

DATE: 16/12/75
STATION: 4
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.59	1.89	0.00	0.38
	2-	0.71	2.06	0.00	0.35
	3-	0.60	1.96	0.00	0.31
	4-	0.60	1.88	0.00	0.33
	5-	0.48	1.97	0.00	0.34
	6-	0.66	1.96	0.00	0.33
	MEAN	0.61	1.95	0.00	0.34
	S.D.	0.08	0.07	-	0.02

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	230.0	25.6	0.58	0.65
	2-	197.0	23.5	0.55	0.49
	3-	235.1	24.1	0.47	0.57
	4-	305.7	23.3	0.59	0.65
	5-	281.8	36.8	0.60	0.44
	6-	200.1	25.6	0.57	0.63
	MEAN	241.6	26.5	0.56	0.57
	S.D.	43.9	5.2	0.05	0.09

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/₀₀
REPLICATES	1-	4.37	0.13	30.136
	2-	7.71	0.13	30.138
	3-	6.96	0.04	30.139
	4-	6.24	0.11	30.113
	5-	6.27	0.13	30.134
	6-	6.32	0.04	30.140
	MEAN	6.31	0.10	30.133
	S.D.	1.11	0.05	0.010

DATE: 16/12/75
STATION: 5
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.51	1.82	0.00	0.31
	2-	0.59	1.71	0.00	0.31
	3-	0.64	1.69	0.00	0.31
	4-	0.33	1.85	0.00	0.33
	5-	0.60	1.79	0.00	0.29
	6-	0.49	1.88	0.00	0.33
	MEAN	0.53	1.79	0.00	0.31
	S.D.	0.11	0.08	-	0.01

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	265.5	29.7	0.51	0.60
	2-	180.9	24.0	0.50	0.60
	3-	227.4	26.7	0.55	0.49
	4-	199.2	26.2	0.50	0.59
	5-	181.3	22.8	0.52	0.48
	6-	259.5	25.7	-	0.47
	MEAN	219.0	25.9	0.52	0.54
	S.D.	37.8	2.4	0.02	0.06

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY °/$_{oo}$
REPLICATES	1-	8.03	0.24	30.174
	2-	7.49	0.17	30.175
	3-	7.49	0.19	30.172
	4-	5.52	0.15	30.183
	5-	7.20	0.17	31.182
	6-	7.71	0.24	30.177
	MEAN	7.24	0.19	30.177
	S.D.	0.89	0.04	0.004

DATE: 16/12/75
STATION: 6
DEPTH: 5 m

		PRODUCTION mg C $m^{-3}h^{-1}$	CHLOROPHYLL mg m^{-3}	PHAEOPIGMENTS mg m^{-3}	ATP mg m^{-3}
REPLICATES	1-	0.41	1.44	0.00	0.30
	2-	0.40	1.63	0.00	0.30
	3-	0.52	1.57	0.00	0.30
	4-	0.45	1.62	0.00	0.29
	5-	0.46	1.47	0.00	0.29
	6-	0.43	1.65	0.00	0.30
	MEAN	0.45	1.56	0.00	0.30
	S.D.	0.04	0.09	-	0.01

		PART. C mg m^{-3}	PART. N. mg m^{-3}	PHOSPHATE mg-at m^{-3}	NITRATE mg-at m^{-3}
REPLICATES	1-	174.6	21.9	0.55	0.60
	2-	229.3	27.6	0.53	0.47
	3-	216.4	25.0	0.58	0.58
	4-	251.0	28.4	0.60	0.46
	5-	205.7	28.0	0.61	0.49
	6-	246.0	28.6	0.55	0.61
	MEAN	220.5	26.6	0.57	0.54
	S.D.	28.3	2.6	0.03	0.07

		SILICATE mg-at m^{-3}	AMMONIA mg-at m^{-3}	SALINITY $^{o}/_{oo}$
REPLICATES	1-	6.40	0.19	30.268
	2-	5.95	0.24	30.260
	3-	8.03	0.32	30.255
	4-	6.72	0.28	30.254
	5-	5.41	0.26	30.254
	6-	8.43	0.15	30.256
	MEAN	6.82	0.24	30.258
	S.D.	1.18	0.06	0.006

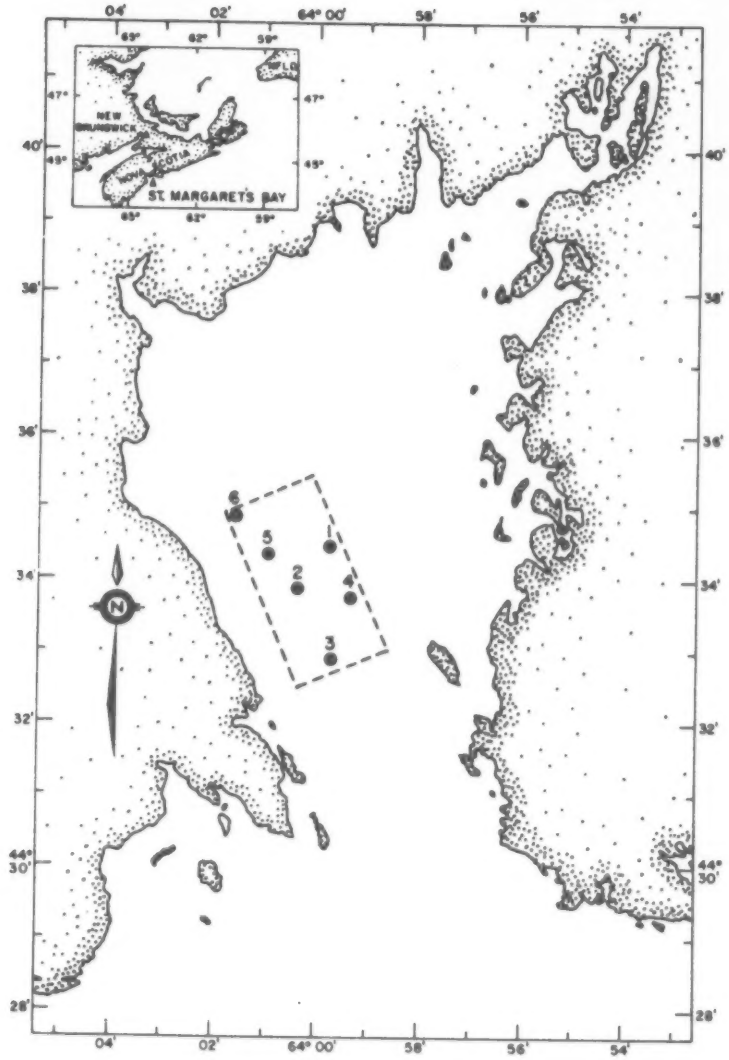

Fig. 1. Location of the sampling stations in St. Margaret's Bay, Nova Scotia.